Yahoo Group Archive: pixel_loop

Yahoo Group summary: Pixel magnetic loop antenna

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2012-01-19 through 2018-08-17

Source WARC: pixel_loop.pH7SecH.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-09-24T15-03-20Z-58b963

Messages included in this PDF: 408

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Pixel RF Pro-1B install trials and errors

Yahoo group: pixel_loop
Date: 2012-01-19 04:08:03 UTC
From: jay_hendershott
Topic: 1 Message: 1

Hello Group,

A few notes on the installation of my new loop over the past week. When I first received it I mounted it in a somewhat hidden location about 5 feet from my house. I chose this location due to CC&R's in my neighborhood. I mounted the loop on fiberglass mast about 10' high measured from ground level to the bottom of the loop. What I experienced was the exact opposite of the reviews I had read from other users. I could hardly notice a difference between my 35' high OCF dipole and the loop regarding man made noise. On top of that the signal levels received on the loop compared to my dipole were about 2-3 S units lower. Same amount of man made noise and lower received signal. Not what I payed $400.00 for! A few of the reviews I read stated that the users mounted these loops in there attics and inside there apartments. They were very amazed how well the loop performed which is why I believed 5 feet from my house would be sufficient. Well that was not the case. I contacted Pixel and explained my issues. They were very nice and cared about my issues, they wanted to help. The tech suggested I mount the loop as far from my house as possible even if the antenna height could not be as high as previous. Pixel stated they do all of there testing at 5 feet above ground measured at ground level to the bottom of the loop. This solved everything, it was a new antenna. NBD's, Navtex, minimal man made noise and clear signals. Thank you Pixel. One thing I forgot to mention is I am using the recommended RG-6 quad shielded.

Thanks for reading and 73

Jay

2. [pixel_loop] pixelloop group name/addresses have changed

Yahoo group: pixel_loop
Date: 2012-01-19 04:10:51 UTC
From: notify@yahoogroups.com
Topic: 2 Message: 2

Hello,

The moderator of the pixelloop group has changed the group's name.
This means that both the group's email address and the group home page
location have changed.

The group email address:
pixel_loop@yahoogroups.com

The group home page location:
http://groups.yahoo.com/group/pixel_loop

If you have links which point to this group or an address book entry
for the group, you should update them, as the old addresses will no
longer work.

Regards,

Yahoo! Groups Customer Care

3. Hello to all new members!

Yahoo group: pixel_loop
Date: 2012-01-19 18:13:50 UTC
From: jay_hendershott
Topic: 3 Message: 3

Thanks for joining and please post installation notes pictures etc to the group for reference to other users.

Thanks

Jay

4. Received signal strength

Yahoo group: pixel_loop
Date: 2012-01-21 19:28:44 UTC
From: jay_hendershott
Topic: 4 Message: 4

Hello Group,

Curious what the different members have there loop height at? I started out at 10 feet but do to CC&R's and to much pickup of RFI near my house I ended up moving to the corner of my lot and putting the height at 5 feet. Has anyone done further test to see how much height effects this loop?

Thanks

Jay

5. Re: [pixel_loop] Received signal strength

Yahoo group: pixel_loop
Date: 2012-01-21 19:51:16 UTC
From: Larry Ewan
Topic: 4 Message: 5

The base of mine is on a rotator at about 7 feet. The rotator is mounted on a wooden fence post about 30 feet from the house. The height doesn't make a lot of difference, less than an S-unit on my Perseus from ground to 35 feet, but the distance from the house makes a big difference in noise pick up until I reach the magic distance which seems to be about 17 or 18 feet. Then there's no improvement with more distance. The QRM reduction of the pixel loop compared to my wire antennas is remarkable. I can also nearly null out a pair 50KW stations 35 miles from me which makes daytime AM ground wave DXing possible.

One thing to watch on the antenna is clearance on the coax feed from the loop to the preamp. I had to open the bracket hole the coax is fed through to 3/4-inch to keep the spider webs from bridging the loop to ground when it was damp or raining (much of the time here in Florida). I discovered this as the summer progressed and my signal strength began to steadily drop.

Larry

On 1/21/12 2:28 PM, "jay_hendershott" <k7gfh@comcast.net> wrote:

>Hello Group,
>
>Curious what the different members have there loop height at? I started
>out at 10 feet but do to CC&R's and to much pickup of RFI near my house I
>ended up moving to the corner of my lot and putting the height at 5 feet.
> Has anyone done further test to see how much height effects this loop?
>
>Thanks
>
>Jay

6. Re: Received signal strength

Yahoo group: pixel_loop
Date: 2012-01-22 10:26:02 UTC
From: Ben
Topic: 4 Message: 6

--- In pixel_loop@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:

> Has anyone done further test to see how much height effects this loop?

Until this morning, mine was at about ten feet, and worked reasonably well, though it was only about ten feet from my wooden-frame home and perhaps about 30 feet from my main collection of noise sources.

Today, though, I mounted it on top of a wooden trailer at about six feet, which I then pulled way out into my yard -- at least thirty feet from a corner of the house, and more like 75 feet from my noise sources. The trailer is a metal flatbed that I put a 4' wood box into, so the loop is now within perhaps four feet of the trailer's metal frame. I was worried about that, but...

Coincidentally, there was a very active amateur radio contest today, and man, did I hear some great signals... very, very low noise levels. And the SW bands were crazy active.

Tonight, I turned the antenna 90 degrees, which should have made it more sensitive to my noise in a NS orientation... still no noise. AM DXing is going like gangbusters, but I *am* seeing some BCB band heterodynes I was hoping would go away... they may be getting into the system inside the house, I dunno yet.

Tomorrow I'm going to drive around and I'll go out in the country where there is NO noise, and see how it all works there. Once I get a feel for this, I'm going to put a pole that can be quickly mounted on the on the trailer after a ride or re-positioning and boost the loop perhaps another 10-16 feet towards the sky, and see what, if any, difference it makes. And again, I promise to report the results.

I'm delighted to see this group -- I think with a little pondering and fooling about among just a few of us, we can learn a lot about the real world performance of this loop. There's no question it can do a good job -- but I think we all want it to do the best possible job it can, and that's going to take knowing exactly what it needs, so questions like the above "what height" one are really, really useful.

7. Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-22 23:42:06 UTC
From: jsmith@mnsinc.com
Topic: 7 Message: 7

I've just posted a detailed, statistically based, comparison of the Pro-1B and Wellbrook ALA1530 in the files section of this group.

I recognize that as the developer of the loop amplifier, I'm not a disinterested reviewer. I've done my best, however, to make honest measurements and to provide extensive details on my methodology. I've tried to distinguish places where an opinion is called for and those where the collected data is analyzed and indentify the former as "my opinion" or "my view" and to supply reasons supporting my conclusions.

Jack K8ZOA

8. Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 00:46:24 UTC
From: Ken N9VV
Topic: 7 Message: 8

OUTSTANDING work Jack. We all THANK YOU! I am eagerly looking forward to Part-II where I can see the comparison between the "magnetic" and "voltage prob" antenna like the Clifton Labs unit. Many thanks for helping us understand the differences and individual advantages.
all the best,
73 de Ken N9VV (can't afford any loop <g>)

--- In pixel_loop@yahoogroups.com, "jsmith@..." <Jack.Smith@...> wrote:
>
> I've just posted a detailed, statistically based, comparison of the Pro-1B and Wellbrook ALA1530 in the files section of this group.
>
> I recognize that as the developer of the loop amplifier, I'm not a disinterested reviewer. I've done my best, however, to make honest measurements and to provide extensive details on my methodology. I've tried to distinguish places where an opinion is called for and those where the collected data is analyzed and indentify the former as "my opinion" or "my view" and to supply reasons supporting my conclusions.
>
> Jack K8ZOA
>

9. Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 06:04:05 UTC
From: Ben
Topic: 7 Message: 9

--- In pixel_loop@yahoogroups.com, "jsmith@..." <Jack.Smith@...> wrote:
>
> I've just posted a detailed, statistically based, comparison of the Pro-1B and Wellbrook ALA1530 in the files section of this group.

Jack, thank you -- this is very interesting.

Question for you:

In most designs, compromises are made in order to meet generally practical goals, particularly price, sometimes availability.

With the loop, inevitably, using a sensitive waterfall display, I can see signals that by virtue of their low levels are mostly buried in the noise; I wonder if this noise is coming from the band, from the amplifier, or both. so:

Can you characterize the general noise level that one would attribute to the amplifier?

I see that presently in the evening, for instance, the output of the loop is about .5 uV in the general 24-28 MHz range -- with the band clearly dead. It isn't a lot higher in the daytime, though. However, down at 3-6 MHz, the noise level is more like 5 uV.

At 3-6 MHz, am I looking at 4.5 uV of received noise and .5 uV of amplifier noise, or is that too simplistic a view?

Thanks for any insight you are willing to offer. I'm insatiably curious. :)

--Ben
AA7AS

10. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 11:59:55 UTC
From: Jack Smith
Topic: 7 Message: 10

All amplifiers create noise. The Pro-1B amplifier has a noise figure of approximately 2 dB with exceptionally good intermodulation intercept figures. In terms of broadband HF amplifiers 2 dB is a very good noise figure.

To put this figure in prospective, a typical HF receiver has a noise figure in the 12 to 20 dB range.

In addition, an antenna picks up noise from local sources and also galactic noise, which is usually not observed unless you have a quiet location.

In general, lower frequencies have higher daytime noise levels than nighttime and lower frequencies have a higher noise floor than higher frequencies.

Your observations of noise levels and behavior are typical and will be seen with any antenna type.

One of the more useful compendiums on radio noise is the ITU-R (formerly CCIR) recommendation 372. It's available for download at

http://www.itu.int/dms_pubrec/itu-r/rec/p/R-REC-P.372-10-200910-I!!PDF-E.pdf

Jack K8ZOA

On 1/23/2012 1:04 AM, Ben wrote:
>
>
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "jsmith@..." <Jack.Smith@...>
> wrote:
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> > I've just posted a detailed, statistically based, comparison of the
> Pro-1B and Wellbrook ALA1530 in the files section of this group.
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>
> Question for you:
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> practical goals, particularly price, sometimes availability.
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> the noise; I wonder if this noise is coming from the band, from the

> amplifier, or both. so:
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> to the amplifier?
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> loop is about .5 uV in the general 24-28 MHz range -- with the band
> clearly dead. It isn't a lot higher in the daytime, though. However,
> down at 3-6 MHz, the noise level is more like 5 uV.
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> At 3-6 MHz, am I looking at 4.5 uV of received noise and .5 uV of
> amplifier noise, or is that too simplistic a view?
>
> Thanks for any insight you are willing to offer. I'm insatiably
> curious. :)
>
> --Ben
> AA7AS
>
>

11. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 12:10:54 UTC
From: Jack Smith
Topic: 7 Message: 11

Also the predecessor report, CCIR 1995 Rec. 322 is of interest. A copy is at

http://www.spawar.navy.mil/sti/publications/pubs/td/2813/

Jack K8ZOA

On 1/23/2012 1:04 AM, Ben wrote:
>
>
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "jsmith@..." <Jack.Smith@...>
> wrote:
> >
> > I've just posted a detailed, statistically based, comparison of the
> Pro-1B and Wellbrook ALA1530 in the files section of this group.
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> At 3-6 MHz, am I looking at 4.5 uV of received noise and .5 uV of
> amplifier noise, or is that too simplistic a view?
>
> Thanks for any insight you are willing to offer. I'm insatiably
> curious. :)
>
> --Ben
> AA7AS

>
>

12. Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 12:56:48 UTC
From: Simon HB9DRV
Topic: 7 Message: 12

Hi,

I've uploaded a picture showing a Wellbrook & Pixel PRO-1B on the balcony of my apartment. The PRO-1B is very, very well built.

http://groups.yahoo.com/group/pixel_loop/photos/album/744100467/pic/294565915/view

Simon Brown, HB9DRV
http://sdr-radio.com

Not sent from an iPhone: I don't have one and I don't want one.

13. RE: [pixel_loop] Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 12:57:55 UTC
From: Simon HB9DRV
Topic: 7 Message: 13

Oh ha ha ha, URL truncated :(

http://tinyurl.com/7pwxh9q

Simon Brown, HB9DRV
http://sdr-radio.com

Not sent from an iPhone: I don't have one and I don't want one.

-----Original Message-----
From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of Simon HB9DRV
Sent: 23 January 2012 13:57
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Hi,

I've uploaded a picture showing a Wellbrook & Pixel PRO-1B on the balcony of my apartment. The PRO-1B is very, very well built.

http://groups.yahoo.com/group/pixel_loop/photos/album/744100467/pic/294565915/view

Simon Brown, HB9DRV
http://sdr-radio.com

Not sent from an iPhone: I don't have one and I don't want one.

Yahoo! Groups Links

14. Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 14:30:09 UTC
From: jay_hendershott
Topic: 7 Message: 14

Nice picturen Simon. Wish we got snow like that but if we did the town would completely shutdown. If we get two or three inches they cancel school.

Thanks

Jay

--- In pixel_loop@yahoogroups.com, "Simon HB9DRV" <simon@...> wrote:
>
> Hi,
>
> I've uploaded a picture showing a Wellbrook & Pixel PRO-1B on the balcony of
> my apartment. The PRO-1B is very, very well built.
>
> http://groups.yahoo.com/group/pixel_loop/photos/album/744100467/pic/29456591
> 5/view
>
> Simon Brown, HB9DRV
> http://sdr-radio.com
>
> Not sent from an iPhone: I don't have one and I don't want one.
>

15. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 14:40:21 UTC
From: Alberto I2PHD
Topic: 7 Message: 15

On 1/23/2012 12:59 PM, Jack Smith wrote:
> All amplifiers create noise. The Pro-1B amplifier has a noise figure of approximately 2 dB with exceptionally good
> intermodulation intercept figures. In terms of broadband HF amplifiers 2 dB is a very good noise figure.
An almost stupid question, as the answer is 99% NO, but... is the schematic of that amplifier published somewhere ?

--
/*73 Alberto I2PHD*/

16. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 14:42:15 UTC
From: Jack Smith
Topic: 7 Message: 16

The answer is no, it is not published.

Jack

On 1/23/2012 9:40 AM, Alberto I2PHD wrote:
>
> On 1/23/2012 12:59 PM, Jack Smith wrote:
>
>> All amplifiers create noise. The Pro-1B amplifier has a noise figure
>> of approximately 2 dB with exceptionally good
>> intermodulation intercept figures. In terms of broadband HF
>> amplifiers 2 dB is a very good noise figure.
> An almost stupid question, as the answer is 99% NO, but... is the
> schematic of that amplifier published somewhere ?
>
> --
> /*73 Alberto I2PHD*/
>

17. Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 18:48:38 UTC
From: Art
Topic: 7 Message: 17

I printed out the comparison report between the two loops. I was on one page, mentally calculating the difference between the "winner," when I finally turned the page and saw that it had already been calculated!

For the bands of interest (my interest), it looks like I'm going with the Pixel loop. There are a few areas where the Wellbrook seems to exceed, but those are areas where I already have high gain antennas, i.e., a beam. My 4 el SteppIR covers 6M thru 40M.

The test results document is impressive. There was a lot of good time and good effort put into that. The guys who sell amateur band antennas would do well to heed that kind of effort. It's amazing sometimes how often one sees what looks like a miracle antenna - 3 elements with 12 dBd gain, etc. - and you know that's so far from reality!

Art - N4PJ

--- In pixel_loop@yahoogroups.com, "Simon HB9DRV" <simon@...> wrote:
>
> Hi,
>
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> 5/view
>
> Simon Brown, HB9DRV
> http://sdr-radio.com
>
> Not sent from an iPhone: I don't have one and I don't want one.
>

18. RE: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 18:57:28 UTC
From: N3UJJ
Topic: 7 Message: 18
Attachments: 1 described; binary payloads are missing from this source WARC

I'd just like to add my 2 cents worth.

I've had a Pixel Pro for about a year now, and about 6 months ago it went deaf.

I called Pixel for help diagnosing the problem, at their expense they sent me a new Pre-Amp, and power supply only asking that I send back the originals. My only cost was the return shipment of the parts. This kind of tech support is second to none.

These guys are the best.

I loved the comparison report, very well written.

I have my antenna at 35 feet (and very happy with it) and I'm tempted to bring it down to about 8 feet just to see if it gets better !!!!

Scott Gillis <http://sgillis.com> N3UJJ <http://www.n3ujj.com>
My HamShack <http://www.n3ujj.com/hamshack.html>
My Current Location <http://location.n3ujj.com>
My Amateur Weather Station <http://weather.n3ujj.com>
My BOINC standings
<http://boincstats.com/stats/boinc_user_graph.php?pr=bo&id=0543f666397da86b6d21b2c4520667fa>

<http://boincstats.com/stats/boinc_user_graph.php?pr=bo&id=0543f666397da86b6d21b2c4520667fa> cid:part1.00070006.03090300@...

-----Original Message-----
From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of Art
Sent: Monday, January 23, 2012 13:49
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

I printed out the comparison report between the two loops. I was on one page, mentally calculating the difference between the "winner," when I finally turned the page and saw that it had already been calculated!

For the bands of interest (my interest), it looks like I'm going with the Pixel loop. There are a few areas where the Wellbrook seems to exceed, but those are areas where I already have high gain antennas, i.e., a beam. My 4 el SteppIR covers 6M thru 40M.

The test results document is impressive. There was a lot of good time and good effort put into that. The guys who sell amateur band antennas would do well to heed that kind of effort. It's amazing sometimes how often one sees

what looks like a miracle antenna - 3 elements with 12 dBd gain, etc. - and you know that's so far from reality!

Art - N4PJ

19. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 19:08:35 UTC
From: Alberto I2PHD
Topic: 7 Message: 19

On 1/23/2012 3:42 PM, Jack Smith wrote:
> The answer is no, it is not published.
>
> Jack
Thanks Jack, that's what I was almost sure of.
But could you perhaps describe in words how it is done ? I.E. couple of balanced Norton amps, or perhaps something
different... just to have a general idea.

--
/*73 Alberto I2PHD*/

20. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-23 19:23:35 UTC
From: Jack Smith
Topic: 7 Message: 20

Alberto:

No, this is a product designed and supplied under a non-disclosure agreement and I can't say anything about it other than the measured performance data.

Jack K8ZOA

On 1/23/2012 2:08 PM, Alberto I2PHD wrote:
>
> On 1/23/2012 3:42 PM, Jack Smith wrote:
>
>> The answer is no, it is not published.
>>
>> Jack
> Thanks Jack, that's what I was almost sure of.
> But could you perhaps describe in words how it is done ? I.E. couple
> of balanced Norton amps, or perhaps something
> different... just to have a general idea.
>
> --
> /*73 Alberto I2PHD*/
>

21. Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-27 14:11:56 UTC
From: MikeP
Topic: 7 Message: 21

hi Jack,
I have 3 Pixel Antennas in the back yard and am happy with performance and support.
While chasing an intermittent I had to open up the amplifier to tighten the input coax connectort. Because the antenna is symmetric, I expected the amplifiier to be balanced, but the coax shield was clearly grounded to the case and the circuit board ground and to the output coax shield.
Have you compared your arrangement with use of a balanced amplifier or by putting a transformer (Balun) in the input coax?
Thanks,
Mike KT7D

--- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@...> wrote:
>
> Alberto:
>
> No, this is a product designed and supplied under a non-disclosure
> agreement and I can't say anything about it other than the measured
> performance data.
>
> Jack K8ZOA
>
>

22. Re: [pixel_loop] Re: Pixel Pro-1B versus Wellbrook ALA1530L Comparison

Yahoo group: pixel_loop
Date: 2012-01-27 14:40:50 UTC
From: Jack Smith
Topic: 7 Message: 22

Mike:

I can't comment on your question due to confidentiality. But I will say you might learn more if you open the bottom junction box of the Pixel loop and take a close look at it and consider the loop and amplifier as a system working together. However, if you do so be very careful as there is not much space in the junction box and things can be easily damaged.

Jack

On 1/27/2012 9:11 AM, MikeP wrote:
>
> hi Jack,
> I have 3 Pixel Antennas in the back yard and am happy with performance
> and support.
> While chasing an intermittent I had to open up the amplifier to
> tighten the input coax connectort. Because the antenna is symmetric, I
> expected the amplifiier to be balanced, but the coax shield was
> clearly grounded to the case and the circuit board ground and to the
> output coax shield.
> Have you compared your arrangement with use of a balanced amplifier or
> by putting a transformer (Balun) in the input coax?
> Thanks,
> Mike KT7D
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, Jack Smith <Jack.Smith@...> wrote:
> >
> > Alberto:
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> > No, this is a product designed and supplied under a non-disclosure
> > agreement and I can't say anything about it other than the measured
> > performance data.
> >
> > Jack K8ZOA
> >
> >
>
>

23. Intermittent noise

Yahoo group: pixel_loop
Date: 2012-01-27 14:47:46 UTC
From: MikeP
Topic: 23 Message: 23

I an happy with Pixar's product and support. I have 3 loops 150 ft from the shack. I am posting this because many users may be affected without realizing it and not be getting the performance the loop is capable of.

Normally the noise level is low,but sometimes one antenna will start picking up electrical noise from switching power supplies and similar things in the shack. With the help of Pixar, this was traced to a bad connection at the bottom of the loop. The electrical conduit fitting at the base of the loop is supposed to make a connection between the two halves of the loop. For me this was an intermittent problem and on some days the noise level at 5 MHz would be 10 to 20 dB higher. Or the noise was intermittent when shaking the loop (or when wind shook it).

Pixar suggested tightening the big nuts under the shrink wrap on either side of the conduit fitting. This helped, but the problem returned in one loop. They also suggested that a jumper wire might be run from one side of the loop to the other. They pointed out drain holes at the bottom on each side where screws might be inserted. I have not tried this yet. Mike, KT7D

24. Re: [pixel_loop] Intermittent noise

Yahoo group: pixel_loop
Date: 2012-01-27 15:08:04 UTC
From: Jack Smith
Topic: 23 Message: 24

Mike:

A shielded loop, such as Pixel's Pro-1B, should have only one break in the shield, and in the Pro-1B case, the break is at the top junction box.

The lower junction box is electrically part of the loop shield and accordingly should connect to both sides of the loop tubing.

There are some electronic components inside the lower junction box and it's also possible water has entered and is creating noise. I've not had that happen with any of loops on my test range, but it's certainly not impossible.

Jack

On 1/27/2012 9:47 AM, MikeP wrote:
>
> I an happy with Pixar's product and support. I have 3 loops 150 ft
> from the shack. I am posting this because many users may be affected
> without realizing it and not be getting the performance the loop is
> capable of.
>
> Normally the noise level is low,but sometimes one antenna will start
> picking up electrical noise from switching power supplies and similar
> things in the shack. With the help of Pixar, this was traced to a bad
> connection at the bottom of the loop. The electrical conduit fitting
> at the base of the loop is supposed to make a connection between the
> two halves of the loop. For me this was an intermittent problem and on
> some days the noise level at 5 MHz would be 10 to 20 dB higher. Or the
> noise was intermittent when shaking the loop (or when wind shook it).
>
> Pixar suggested tightening the big nuts under the shrink wrap on
> either side of the conduit fitting. This helped, but the problem
> returned in one loop. They also suggested that a jumper wire might be
> run from one side of the loop to the other. They pointed out drain
> holes at the bottom on each side where screws might be inserted. I
> have not tried this yet.
> Mike, KT7D
>
>

25. Re: [pixel_loop] Intermittent noise

Yahoo group: pixel_loop
Date: 2012-01-27 16:35:51 UTC
From: kjhalliwell@aol.com
Topic: 23 Message: 25

Pleased to hear Pixar has been helpful.

I've learned to never depend on mechanical conduit fittings for electrical connections -- especially in weather exposed or underground applications.

Disappointed to hear that Pixar didn't consider this issue in its design. Makes me rethink buying one...

Ken
WA8FCI

-----Original Message-----
From: MikeP <airarray@...>
To: pixel_loop <pixel_loop@yahoogroups.com>
Sent: Fri, Jan 27, 2012 9:47 am
Subject: [pixel_loop] Intermittent noise

I an happy with Pixar's product and support. I have 3 loops 150 ft from the shack. I am posting this because many users may be affected without realizing it and not be getting the performance the loop is capable of.

Normally the noise level is low,but sometimes one antenna will start picking up electrical noise from switching power supplies and similar things in the shack. With the help of Pixar, this was traced to a bad connection at the bottom of the loop. The electrical conduit fitting at the base of the loop is supposed to make a connection between the two halves of the loop. For me this was an intermittent problem and on some days the noise level at 5 MHz would be 10 to 20 dB higher. Or the noise was intermittent when shaking the loop (or when wind shook it).

Pixar suggested tightening the big nuts under the shrink wrap on either side of the conduit fitting. This helped, but the problem returned in one loop. They also suggested that a jumper wire might be run from one side of the loop to the other. They pointed out drain holes at the bottom on each side where screws might be inserted. I have not tried this yet.
Mike, KT7D

26. Re: [pixel_loop] Intermittent noise

Yahoo group: pixel_loop
Date: 2012-01-27 16:39:11 UTC
From: kjhalliwell@aol.com
Topic: 23 Message: 26

BTW: I love Pixar's cartoons... ;-)

Ken
WA8FCI

-----Original Message-----
From: kjhalliwell <kjhalliwell@...>
To: pixel_loop <pixel_loop@yahoogroups.com>
Sent: Fri, Jan 27, 2012 11:36 am
Subject: Re: [pixel_loop] Intermittent noise

Pleased to hear Pixar has been helpful.

I've learned to never depend on mechanical conduit fittings for electrical connections -- especially in weather exposed or underground applications.

Disappointed to hear that Pixar didn't consider this issue in its design. Makes me rethink buying one...

Ken
WA8FCI

-----Original Message-----
From: MikeP <;airarray@...>
To: pixel_loop <pixel_loop@yahoogroups.com>
Sent: Fri, Jan 27, 2012 9:47 am
Subject: [pixel_loop] Intermittent noise

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Normally the noise level is low,but sometimes one antenna will start picking up electrical noise from switching power supplies and similar things in the shack. With the help of Pixar, this was traced to a bad connection at the bottom of the loop. The electrical conduit fitting at the base of the loop is supposed to make a connection between the two halves of the loop. For me this was an intermittent problem and on some days the noise level at 5 MHz would be 10 to 20 dB higher. Or the noise was intermittent when shaking the loop (or when wind shook it).

Pixar suggested tightening the big nuts under the shrink wrap on either side of the conduit fitting. This helped, but the problem returned in one loop. They also suggested that a jumper wire might be run from one side of the loop to the other. They pointed out drain holes at the bottom on each side where screws might be inserted. I have not tried this yet.
Mike, KT7D

27. Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-01-27 23:06:22 UTC
From: MikeP
Topic: 23 Message: 27

Not much water here in the desert, but there is a big day-night temperature swing.
As we say "it's a dry heat".

28. Loop mount

Yahoo group: pixel_loop
Date: 2012-01-27 23:23:41 UTC
From: Ben
Topic: 28 Message: 28

Here's a photo with some explanatory text, of my portable RF-PRO 1B loop installation:

http://www.flickr.com/photos/fyngyrz/6773021173

...I mounted it in a few fixed locations, then had the bright idea to trailer mount it, and that was the perfect choice. I was able to move it around until I found what is literally the lowest noise, highest signal location on our property, and there it sets, bring in a perfect storm of signals from 100 Khz to 30 MHz with my SDR.

29. ALA-100

Yahoo group: pixel_loop
Date: 2012-02-03 04:39:11 UTC
From: jay_hendershott
Topic: 29 Message: 29

Hello group,

Anyone here using a Wellbrook ALA-100 I believe is the model? I have listened to a couple of receivers on SDR-RADIO, one in particular being K7LD. I am amazed by the low noise level, comparable to the Pixel loop I believe but I also do not know what environment he is in. Could be the country side or just very low man made noise in his area. I am really amazed by the high signal strength. When I compare signals heard on my Pixel and the same signal on his ALA-100 he is usually 3 to 4 S units higher. The description I saw was an ALA-100 30 meter loop. Anyone know how those are configured? Just curious more than anything. I am happy with my loop, it has reduced man made noise considerably but I think it lacks in received signal strength. Just some thought.

Thanks

Jay

30. Re: [pixel_loop] ALA-100

Yahoo group: pixel_loop
Date: 2012-02-03 06:22:20 UTC
From: Steve Ratzlaff
Topic: 29 Message: 30

Hi Jay,
I own a Pixel small loop and also own a couple of the Wellbrook ALA100 loopamps. You can't fairly compare them--it's like comparing apples to oranges. One (Pixel) is a small loop; the ALA100 is designed to use a much larger loop. One is rotatable with the minor effort of adding a rotator to the mast (Pixel); the ALA100 large loop is not rotatable. As you note, nothing is stated for the environment you heard the ALA100 being used in. It could be a very quiet rural environment. I live in a generally quiet rural environment and I've used 120 foot circumference loops with my ALA100s (I also have no nearby strong AMBC stations). I also have some longwire antennas (1600' E/W unterminated and 400' N/S unterminated), and on several occasions I've had the same (though faint) signals on the ALA100 loop that I've had on the 1600' longwire--but only if noise levels are very quiet. (This is on LF where I do the majority of my listening, for NDBs.) No small loop can approach the sensitivity of a much larger loop (and of course nor of a good longwire), especially at LF.
73,
Steve AA7U
NE Oregon

On Thu, Feb 2, 2012 at 8:39 PM, jay_hendershott <k7gfh@...> wrote:

> Hello group,
>
> Anyone here using a Wellbrook ALA-100 I believe is the model? I have
> listened to a couple of receivers on SDR-RADIO, one in particular being
> K7LD. I am amazed by the low noise level, comparable to the Pixel loop I
> believe but I also do not know what environment he is in. Could be the
> country side or just very low man made noise in his area. I am really
> amazed by the high signal strength. When I compare signals heard on my
> Pixel and the same signal on his ALA-100 he is usually 3 to 4 S units
> higher. The description I saw was an ALA-100 30 meter loop. Anyone know
> how those are configured? Just curious more than anything. I am happy
> with my loop, it has reduced man made noise considerably but I think it
> lacks in received signal strength. Just some thought.
>
> Thanks
>
> Jay
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>
> Yahoo! Groups Links

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31. Re: ALA-100

Yahoo group: pixel_loop
Date: 2012-02-03 14:40:59 UTC
From: jay_hendershott
Topic: 29 Message: 31

Hi Steve,

Thanks for the reply. I agree 100%, cannot compare apples and oranges. I was not really familiar with the ALA-100 but now I understand its use. I guess I am a little concerned with about how the loop is performing still. I can say for sure that I am hearing things I could not hear before, NDB's for instance. I can also say for sure that the noise level compared to my OCF dipole is much improved. The only disappointing thing for me is the received signal strength. If you would like give it a try on SDR-Radio.com. My radio is listed under web servers as K7GFH. I have not had time but am going to listen online to others using the Pixel and see how they compare.

Thanks again,

Jay

--- In pixel_loop@yahoogroups.com, Steve Ratzlaff <steveratz@...> wrote:
>
> Hi Jay,
> I own a Pixel small loop and also own a couple of the Wellbrook ALA100
> loopamps. You can't fairly compare them--it's like comparing apples to
> oranges. One (Pixel) is a small loop; the ALA100 is designed to use a much
> larger loop. One is rotatable with the minor effort of adding a rotator to
> the mast (Pixel); the ALA100 large loop is not rotatable. As you note,
> nothing is stated for the environment you heard the ALA100 being used in.
> It could be a very quiet rural environment. I live in a generally quiet
> rural environment and I've used 120 foot circumference loops with my
> ALA100s (I also have no nearby strong AMBC stations). I also have some
> longwire antennas (1600' E/W unterminated and 400' N/S unterminated), and
> on several occasions I've had the same (though faint) signals on the ALA100
> loop that I've had on the 1600' longwire--but only if noise levels are very
> quiet. (This is on LF where I do the majority of my listening, for NDBs.)
> No small loop can approach the sensitivity of a much larger loop (and of
> course nor of a good longwire), especially at LF.
> 73,
> Steve AA7U
> NE Oregon
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> On Thu, Feb 2, 2012 at 8:39 PM, jay_hendershott <k7gfh@...> wrote:
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> >
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> > listened to a couple of receivers on SDR-RADIO, one in particular being
> > K7LD. I am amazed by the low noise level, comparable to the Pixel loop I
> > believe but I also do not know what environment he is in. Could be the
> > country side or just very low man made noise in his area. I am really

> > amazed by the high signal strength. When I compare signals heard on my
> > Pixel and the same signal on his ALA-100 he is usually 3 to 4 S units
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> > how those are configured? Just curious more than anything. I am happy
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> > lacks in received signal strength. Just some thought.
> >
> > Thanks
> >
> > Jay
> >
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> > ---
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> > Yahoo! Groups Links
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32. Re: [pixel_loop] ALA-100

Yahoo group: pixel_loop
Date: 2012-02-03 15:24:14 UTC
From: cbayona
Topic: 29 Message: 32

I lived in the country for one year where the power is underground, and it was amazing how low the noise was, the meter would not move on most days unless there was a signal. Electrical noise doesn't travel very far so if your neighbor is miles away it's beautifully quiet.

My Pixel loop arrives today, I live with high voltage tension lines going through my yard the noise level is higher than S9. I have all the cabling adapters ready and a portable radio ready (FT-817) so I can find the sweet spot for the antenna.

From what I read they are comparable in terms of signal pickup but the Pixel has a better amplifier that can handle large signals better, and it physically constructed better but that is just what I've read.

At 10:39 PM 2/2/2012, you wrote:
>Hello group,
>
>Anyone here using a Wellbrook ALA-100 I believe is the model? I
>have listened to a couple of receivers on SDR-RADIO, one in
>particular being K7LD. I am amazed by the low noise level,
>comparable to the Pixel loop I believe but I also do not know what
>environment he is in. Could be the country side or just very low
>man made noise in his area. I am really amazed by the high signal
>strength. When I compare signals heard on my Pixel and the same
>signal on his ALA-100 he is usually 3 to 4 S units higher. The
>description I saw was an ALA-100 30 meter loop. Anyone know how
>those are configured? Just curious more than anything. I am happy
>with my loop, it has reduced man made noise considerably but I think
>it lacks in received signal strength. Just some thought.
>
>Thanks
>
>Jay

--
Cecil
k5nwa
http://www.softrockradio.org/
http://thepartsplace.k5nwa.com/
http://parts.softrockradio.org/

Never take life seriously. Nobody gets out alive anyway.

33. Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-02-21 21:17:41 UTC
From: Sal Marandola
Topic: 23 Message: 33

I have been having noise issues with the pro 1A for awhile now. I noticed if I hold the loop a certain way the noise floor drops...if I wiggle it it seems to go in and out.. i also noticed the loop works better laid on its edge then standing straight up..I called the shop and they told that for $200 they can upgrade the loop to a 1B now mind you the antenna is only 10 months old. Im not happy with spending another 200 dollars when it failed me in 10 months. Im going to try and tighten the big nuts at the bottom and also run a wire from loop to loop half. it seems if I put pressure on one side it quiets the loop down. the only thing inside is a thin wire to look out for I guess....if any one has a helpful tip please join in

Sal

--- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@...> wrote:
>
> Mike:
>
> A shielded loop, such as Pixel's Pro-1B, should have only one break in
> the shield, and in the Pro-1B case, the break is at the top junction box.
>
> The lower junction box is electrically part of the loop shield and
> accordingly should connect to both sides of the loop tubing.
>
> There are some electronic components inside the lower junction box and
> it's also possible water has entered and is creating noise. I've not had
> that happen with any of loops on my test range, but it's certainly not
> impossible.
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> Jack
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> On 1/27/2012 9:47 AM, MikeP wrote:
> >
> > I an happy with Pixar's product and support. I have 3 loops 150 ft
> > from the shack. I am posting this because many users may be affected
> > without realizing it and not be getting the performance the loop is
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> > Normally the noise level is low,but sometimes one antenna will start
> > picking up electrical noise from switching power supplies and similar
> > things in the shack. With the help of Pixar, this was traced to a bad
> > connection at the bottom of the loop. The electrical conduit fitting
> > at the base of the loop is supposed to make a connection between the
> > two halves of the loop. For me this was an intermittent problem and on
> > some days the noise level at 5 MHz would be 10 to 20 dB higher. Or the
> > noise was intermittent when shaking the loop (or when wind shook it).

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> > holes at the bottom on each side where screws might be inserted. I
> > have not tried this yet.
> > Mike, KT7D
> >
> >
>

34. Re: [pixel_loop] Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-02-23 06:25:00 UTC
From: Steve Ratzlaff
Topic: 23 Message: 34

Hi Sal,
The plot thickens. I took the PCB out to repair the broken loop connector wire. It had not been properly soldered to the PCB, for one thing. After fixing that, I pulled on the other end where the connector is, and it just pulled right off. This is a crimped connection and it had not been properly crimped! So I peeled back the thick plastic cover and soldered the wire to the connector and put black tape over it. Pulled on the other loop connector wire, and it jiggled, so did the same thing to that. These are bastards to reconnect the loop wire to the connector, I'd forgotten how hard it was--takes pliers and longnose pliers, etc, lots of jiggling and trying to get the pieces to initially mate, then trying to push them together for a full mate. Eventually got it, no fun! (And I've replaced experimental PCB's at least 5 times in the past, so have some experience at it.
So that leaves another possibility for why your loop is intermittent--improperly crimped connectors. I have no idea if the loop end connectors are properly crimped on mine, I hope so!
Note that the loop is a Moebius loop, not a simple one end going around and connecting to the PCB at the other end. At the top of the loop, in that other non-metal box (so the outer tubing doesn't make a shorted turn), there are more crimped connections--so your trouble may even be up there--where the wires are broken and crossed to make the Moebius part.
Maybe the Pro 1B doesn't use a Moebius connection any longer, who knows--that they're charging $200 to replace the whole loop assembly.
Anyway I hope you have mechanical skills as you may have to practically dissassemble the whole inner loop to check the crimped connections, if you don't find what's wrong with the other checks I mentioned before.
I can see where one could get really upset at Pixel over this stuff.....
Steve

On Tue, Feb 21, 2012 at 1:17 PM, Sal Marandola <scmarandola@...>wrote:

> **
>
>
> I have been having noise issues with the pro 1A for awhile now. I noticed
> if I hold the loop a certain way the noise floor drops...if I wiggle it it
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> > that happen with any of loops on my test range, but it's certainly not
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> > Jack
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> > > Mike, KT7D
> > >
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35. Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-02-23 12:33:35 UTC
From: Sal Marandola
Topic: 23 Message: 35

Steve,

Thanks for all your advice and here is what i have found and done so far. I cut the white shrink wrap at the base of the loop. I got three full turns on the connectors which were siliconed into place. I took off the bottom cover where the PCB lives and found that the wires to the board seemed to be intact. I lightly tugged on the connectors and they seem to be mated tightly and not lose. Leaving the cover off I plugged the antenna back in and fired up the Winradio. A noticeable diffrence in noise and signal strenght to the good. Noise floor dropped 2 DB and signal up as well. Still not finished I decided to make a small 6 inch jumber and connect from the left to the right sides of the loop. From what I have seen so far this has stopped the wiggle noise and the intermittent signal problem. Im going to put it all back together tonite and put it back out on the balcony and see what I get. Wishing that i could only shrink wrap the connections again. Stay tuned for my report hopefully over the weekend.

Sal
--- In pixel_loop@yahoogroups.com, Steve Ratzlaff <ratzlaffsteve@...> wrote:
>
> Hi Sal,
> The plot thickens. I took the PCB out to repair the broken loop connector
> wire. It had not been properly soldered to the PCB, for one thing. After
> fixing that, I pulled on the other end where the connector is, and it just
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> it.
> So that leaves another possibility for why your loop is
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> connectors are properly crimped on mine, I hope so!
> Note that the loop is a Moebius loop, not a simple one end going around and
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> there are more crimped connections--so your trouble may even be up
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> Maybe the Pro 1B doesn't use a Moebius connection any longer, who
> knows--that they're charging $200 to replace the whole loop assembly.
> Anyway I hope you have mechanical skills as you may have to practically
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> don't find what's wrong with the other checks I mentioned before.

> I can see where one could get really upset at Pixel over this stuff.....
> Steve
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> > also run a wire from loop to loop half. it seems if I put pressure on one
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> > Sal
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> > --- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@> wrote:
> > >
> > > Mike:
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> > > A shielded loop, such as Pixel's Pro-1B, should have only one break in
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> > > > Mike, KT7D
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>

36. Re: [pixel_loop] Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-02-24 06:06:27 UTC
From: Steve Ratzlaff
Topic: 23 Message: 36

Hi Sal,
That is very interesting about your checks and fixes, especially jumpering the two bottom sections helping. That would indicate there's still not good connection to the bottom metal box where the PCB is. That box is the primary ground reference point for the whole loop! Maybe you could try adding a jumper to the box where it's a good ground (maybe scrape the paint off if it needs it to ensure a ground on the box). I've been telling all this to Jack Smith too and he came up with the same thing--that it sounds like the tubing isn't making good or even any connection to the box. He wondered how much it would add to the cost to heliarc the tubes to the box--that would positively ensure a solid connection.
Hope your latest balcony tests show noticeable improvement.
Steve

On Thu, Feb 23, 2012 at 4:33 AM, Sal Marandola <scmarandola@...>wrote:

> **
>
>
>
> Steve,
>
> Thanks for all your advice and here is what i have found and done so far.
> I cut the white shrink wrap at the base of the loop. I got three full turns
> on the connectors which were siliconed into place. I took off the bottom
> cover where the PCB lives and found that the wires to the board seemed to
> be intact. I lightly tugged on the connectors and they seem to be mated
> tightly and not lose. Leaving the cover off I plugged the antenna back in
> and fired up the Winradio. A noticeable diffrence in noise and signal
> strenght to the good. Noise floor dropped 2 DB and signal up as well. Still
> not finished I decided to make a small 6 inch jumber and connect from the
> left to the right sides of the loop. From what I have seen so far this has
> stopped the wiggle noise and the intermittent signal problem. Im going to
> put it all back together tonite and put it back out on the balcony and see
> what I get. Wishing that i could only shrink wrap the connections again.
> Stay tuned for my report hopefully over the weekend.
>
> Sal
>
>

38. Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-02-24 15:30:57 UTC
From: Sal Marandola
Topic: 23 Message: 38

Here is what I found so far. last night I placed the Loop back out onto the balcony. Base of loop 15 feet off the ground pointing in a NE to SW orientation my antenna is not rotatable. The radio used was a Winradio Excalibur at Valley Forge Pa. Time was 0015 UTC

I started out with a propogation test buy tuning in 20,15 and 10 Mhz WWV and Got very strong steady signals from all three 15 MHZ being the strongest at S9+10db. 20 and 10 Mhz were S-9. Before I go on I was not able to do this before I made the new ground connection and tightning of the connectors into the PCB box. I havent heard 20 mhz WWV in months. I started at the bottom of my sweep at 1060KHZ a local station in Philadelphia with an amazing almost pegged meter, again the best I would get was S-9+20. I moved up to 160 meters where noise level was a little high but still able to lock on and hear Amateur qso's easily. My next stop was 80 meters which was not a disappointment CW and qso's coming in steady and frequent I caught some of the 80 Mtr AM guys which sounded awesome.

I jumped up to the 5 MHZ section and all the big players like Radio China and Habana where very strong steady signals. WWV was coming in steady but not with a great signal. I finished todays test with a sweep of 40 Meters. Everything seemed to be working well there. CHU Canada was coming in at S9+5 on 7850.

All in all I feel as though my tweaks improved my Pixel Loop considerably. The test will need to be when I get higher on the band like 20 meter and 10. Hopefully with the earlier propogation test this may be a good sign.If anyone else wants to hear the rest of my finding Ill be more then happy to post them.

--- In pixel_loop@yahoogroups.com, Steve Ratzlaff <ratzlaffsteve@...> wrote:
>
> Hi Sal,
> That is very interesting about your checks and fixes, especially jumpering
> the two bottom sections helping. That would indicate there's still not good
> connection to the bottom metal box where the PCB is. That box is the
> primary ground reference point for the whole loop! Maybe you could try
> adding a jumper to the box where it's a good ground (maybe scrape the paint
> off if it needs it to ensure a ground on the box). I've been telling all
> this to Jack Smith too and he came up with the same thing--that it sounds
> like the tubing isn't making good or even any connection to the box. He
> wondered how much it would add to the cost to heliarc the tubes to the
> box--that would positively ensure a solid connection.
> Hope your latest balcony tests show noticeable improvement.
> Steve
>
> On Thu, Feb 23, 2012 at 4:33 AM, Sal Marandola <scmarandola@...>wrote:
>
> > **
> >

> >
> >
> > Steve,
> >
> > Thanks for all your advice and here is what i have found and done so far.
> > I cut the white shrink wrap at the base of the loop. I got three full turns
> > on the connectors which were siliconed into place. I took off the bottom
> > cover where the PCB lives and found that the wires to the board seemed to
> > be intact. I lightly tugged on the connectors and they seem to be mated
> > tightly and not lose. Leaving the cover off I plugged the antenna back in
> > and fired up the Winradio. A noticeable diffrence in noise and signal
> > strenght to the good. Noise floor dropped 2 DB and signal up as well. Still
> > not finished I decided to make a small 6 inch jumber and connect from the
> > left to the right sides of the loop. From what I have seen so far this has
> > stopped the wiggle noise and the intermittent signal problem. Im going to
> > put it all back together tonite and put it back out on the balcony and see
> > what I get. Wishing that i could only shrink wrap the connections again.
> > Stay tuned for my report hopefully over the weekend.
> >
> > Sal
> >
> >
>

39. Re: Intermittent noise

Yahoo group: pixel_loop
Date: 2012-02-26 00:32:55 UTC
From: w1nt
Topic: 23 Message: 39

Do you have any photos of the ground modifications you did or of the areas that were causing the trouble?

Thanks,

-Brad

--- In pixel_loop@yahoogroups.com, "MikeP" <airarray@...> wrote:
>
> I an happy with Pixar's product and support. I have 3 loops 150 ft from the shack. I am posting this because many users may be affected without realizing it and not be getting the performance the loop is capable of.
>
> Normally the noise level is low,but sometimes one antenna will start picking up electrical noise from switching power supplies and similar things in the shack. With the help of Pixar, this was traced to a bad connection at the bottom of the loop. The electrical conduit fitting at the base of the loop is supposed to make a connection between the two halves of the loop. For me this was an intermittent problem and on some days the noise level at 5 MHz would be 10 to 20 dB higher. Or the noise was intermittent when shaking the loop (or when wind shook it).
>
> Pixar suggested tightening the big nuts under the shrink wrap on either side of the conduit fitting. This helped, but the problem returned in one loop. They also suggested that a jumper wire might be run from one side of the loop to the other. They pointed out drain holes at the bottom on each side where screws might be inserted. I have not tried this yet.
> Mike, KT7D
>

40. Loop array?

Yahoo group: pixel_loop
Date: 2012-03-09 00:45:05 UTC
From: w1nt
Topic: 40 Message: 40

Has anyone combined two loops in an array? If so, I am interested i the array spacing/staggering, etc or if anyone has any antenna models available for this type of loop array configuration.

Thanks,

Brad

41. Purchased one today

Yahoo group: pixel_loop
Date: 2012-03-14 16:51:48 UTC
From: doug12455
Topic: 41 Message: 41

Purchased the PRO-1B. Hope it's a good one ;-)

Brian

42. Re: Purchased one today

Yahoo group: pixel_loop
Date: 2012-03-18 12:01:57 UTC
From: Art
Topic: 41 Message: 42

I've had mine now for about 3 weeks. Despite dropping the preamp while unpacking (I think one of the tie wraps broke) it has been performing flawlessly.

The rotor I purchased at Lowe's is only accurate to the nearest 10 degrees. Sometimes the null is much sharper than that. Been snooping around for a light-duty rotator with 1-degree calibration.

Mine is mounted about 10 - 12 feet on a short piece of schedule 80 PVC - using that as a short mast - then attached to the rotor at the bottom and fed with 75' of RG-6U back to the shack entrance.

I really like the added feature of the preamp having a "key" input to shut off the preamp. I share my shack with my wife (she's N4BU) so there's always the danger than one of the switches didn't get moved the right way, the preamp didn't get turned off, etc. I coupled the output of the PTT between the tuner and the amp, splitting the signal so one side goes to the preamp (Pixel provides the necessary y-cable!). When my wife steps on the footswitch to transmit (she uses mostly SSB with some RTTY) it shuts off the preamp. She can run a kilowatt without frying either the preamp or the Excalibur.

Art - N4PJ

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Purchased the PRO-1B. Hope it's a good one ;-)
>
> Brian
>

43. Amazing first results on my Pixel 1B and still indoors at this time !

Yahoo group: pixel_loop
Date: 2012-03-18 22:05:13 UTC
From: Cliff
Topic: 43 Message: 43

Hi All,

I am truly amazed at what I can hear on this antenna,

I purchased a Pixel 1B after much research and the TX switching was very attractive for ham use . Impressions extremely well made, Quite directional even inside my ground level villa, surrounded by metal fence and pergola. I can easily here both NWC on 19.8Khz and WWVB on 60Khz amongst others. I am new to the VLF stuff , only NDB's previously

It was more expensive to have shipped to Sydney Australia than the Welbrook but very happy with the results. The packaging was great too.

Only had it a week or so , can't wait to get it up outside somewhere, not much room.

For general information I am using a WJ=8718A and a JRC-NRD545DSP receivers

Synthesiser noise seems to limit my lower receive frequency to about 15Khz.

Living in a big city we have many powerful AM stations but the Pixel does not seem to have a problem, Can hear a New Zealand station on 1035Khz like a local some nights

Cliff VK2CCJ

44. Re: Purchased one today

Yahoo group: pixel_loop
Date: 2012-03-18 22:40:22 UTC
From: doug12455
Topic: 41 Message: 44

Nice. I'm going to be ground mounting it about 15' up on a standard old TV rotor I have laying around. It will be fed with the same coax. Yes that switch is nice and will be plugged into my 7410 to avoid such accidents. I'm using a 5' piece of fiberglass mast to mount the antenna to the rotor. Thanks for the input.

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, "Art" <aburkefl@...> wrote:
>
> I've had mine now for about 3 weeks. Despite dropping the preamp while unpacking (I think one of the tie wraps broke) it has been performing flawlessly.
>
> The rotor I purchased at Lowe's is only accurate to the nearest 10 degrees. Sometimes the null is much sharper than that. Been snooping around for a light-duty rotator with 1-degree calibration.
>
> Mine is mounted about 10 - 12 feet on a short piece of schedule 80 PVC - using that as a short mast - then attached to the rotor at the bottom and fed with 75' of RG-6U back to the shack entrance.
>
> I really like the added feature of the preamp having a "key" input to shut off the preamp. I share my shack with my wife (she's N4BU) so there's always the danger than one of the switches didn't get moved the right way, the preamp didn't get turned off, etc. I coupled the output of the PTT between the tuner and the amp, splitting the signal so one side goes to the preamp (Pixel provides the necessary y-cable!). When my wife steps on the footswitch to transmit (she uses mostly SSB with some RTTY) it shuts off the preamp. She can run a kilowatt without frying either the preamp or the Excalibur.
>
> Art - N4PJ
>
>
> --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> >
> > Purchased the PRO-1B. Hope it's a good one ;-)
> >
> > Brian
> >
>

45. 1A vs 1B

Yahoo group: pixel_loop
Date: 2012-03-21 01:21:36 UTC
From: Sal Marandola
Topic: 45 Message: 45

has any one tried the PRO-1a next to a 1B? I want to know if the diffrence is noticeable

Sal

46. Re: 1A vs 1B

Yahoo group: pixel_loop
Date: 2012-03-26 15:30:17 UTC
From: doug12455
Topic: 45 Message: 46

From what I've been told by VERY reliable sources, there is very little electrical difference (changes to the amp). Most of the difference is in the mechanical construction and improvements on internal connections and such. I was told again by a VERY reliable source, they had issues with the loop connection loosing/breaking contact or high resistance. Thereby causing a loss of gain and/or higher noise levels.

Brian

--- In pixel_loop@yahoogroups.com, "Sal Marandola" <scmarandola@...> wrote:
>
> has any one tried the PRO-1a next to a 1B? I want to know if the diffrence is noticeable
>
>
> Sal
>

47. Re: [pixel_loop] Re: 1A vs 1B

Yahoo group: pixel_loop
Date: 2012-03-26 18:27:18 UTC
From: Larry Ewan
Topic: 45 Message: 47

If one goes to the Clifton Laboratories web site, http://www.cliftonlaboratories.com/Updates.htm and reads the 20 January 2012 entry it is clear that the 1B model amplifier is a new design developed by Clifton Labs for Pixel Technologies. There is no design disclosure on the site, so there is no easy way to do a quick engineering comparison, nor is it explicitly stated that the 1A model is not a Clifton design, but the implication is that it is not.

What I can tell you is that I have used both versions as a result of a nearly direct lightning strike. Unfortunately, the 1A amp is just a pretty case now. From VLF to 80 meters there isn't an immediately obvious difference between them that my ears can hear or the S-meter on my Perseus shows. From 75 meters up, my perception is that the B is noticeably superior in signal detection on my system - both in signal strength and S/N ratio. I don't have the necessary test equipment to do an engineering comparison nor do I have the time or a functional 1A. Retirement has subjected me to way too many honey-dos to ever finish ;-)

I can confirm that I had mechanical problems with the A model but the issues were easily and economically resolved using procedures from Pixel Tech.

More info from Clifton Labs:
http://www.cliftonlaboratories.com/Documents/Loop%20vs%20Loop%20Final-Final.pdf

Given a choice between an A and B model, I will pick the B model every time for both the electrical performance improvement and the mechanical redesign. There may not be much actual difference in the electrical design, but there is a very noticeable difference in performance.

Larry

On 3/26/12 11:30 AM, "doug12455" <doug12455@...> wrote:

>From what I've been told by VERY reliable sources, there is very little
>electrical difference (changes to the amp). Most of the difference is in
>the mechanical construction and improvements on internal connections and
>such. I was told again by a VERY reliable source, they had issues with
>the loop connection loosing/breaking contact or high resistance. Thereby
>causing a loss of gain and/or higher noise levels.
>
>Brian
>
>--- In pixel_loop@yahoogroups.com, "Sal Marandola" <scmarandola@...>
>wrote:
>>

>> has any one tried the PRO-1a next to a 1B? I want to know if the
>>diffrence is noticeable
>>
>>
>> Sal
>>
>

48. Re: 1A vs 1B

Yahoo group: pixel_loop
Date: 2012-03-26 19:34:52 UTC
From: Sal Marandola
Topic: 45 Message: 48

Why I ask this question is that I bought my 1a just before they switched to the 1 B. I was told by Pixel that I in fact I had the new pre-amp but not the new loop. I had many grounding issues with my loop but worked them out over the course of a few months.

I'm curious what changes were made to the loop other then repairing the ground issues. My loop has never been good on 10 meters. Below 20 MHz down to 100khz I'm happy with it.

Sal

--- In pixel_loop@yahoogroups.com, Larry Ewan <larry@...> wrote:
>
> If one goes to the Clifton Laboratories web site,
> http://www.cliftonlaboratories.com/Updates.htm and reads the 20 January
> 2012 entry it is clear that the 1B model amplifier is a new design
> developed by Clifton Labs for Pixel Technologies. There is no design
> disclosure on the site, so there is no easy way to do a quick engineering
> comparison, nor is it explicitly stated that the 1A model is not a Clifton
> design, but the implication is that it is not.
>
> What I can tell you is that I have used both versions as a result of a
> nearly direct lightning strike. Unfortunately, the 1A amp is just a
> pretty case now. From VLF to 80 meters there isn't an immediately obvious
> difference between them that my ears can hear or the S-meter on my Perseus
> shows. From 75 meters up, my perception is that the B is noticeably
> superior in signal detection on my system - both in signal strength and
> S/N ratio. I don't have the necessary test equipment to do an engineering
> comparison nor do I have the time or a functional 1A. Retirement has
> subjected me to way too many honey-dos to ever finish ;-)
>
> I can confirm that I had mechanical problems with the A model but the
> issues were easily and economically resolved using procedures from Pixel
> Tech.
>
> More info from Clifton Labs:
> http://www.cliftonlaboratories.com/Documents/Loop%20vs%20Loop%20Final-Final
> .pdf
>
> Given a choice between an A and B model, I will pick the B model every
> time for both the electrical performance improvement and the mechanical
> redesign. There may not be much actual difference in the electrical
> design, but there is a very noticeable difference in performance.
>
> Larry
>
> On 3/26/12 11:30 AM, "doug12455" <doug12455@...> wrote:
>

> >From what I've been told by VERY reliable sources, there is very little
> >electrical difference (changes to the amp). Most of the difference is in
> >the mechanical construction and improvements on internal connections and
> >such. I was told again by a VERY reliable source, they had issues with
> >the loop connection loosing/breaking contact or high resistance. Thereby
> >causing a loss of gain and/or higher noise levels.
> >
> >Brian
> >
> >--- In pixel_loop@yahoogroups.com, "Sal Marandola" <scmarandola@>
> >wrote:
> >>
> >> has any one tried the PRO-1a next to a 1B? I want to know if the
> >>diffrence is noticeable
> >>
> >>
> >> Sal
> >>
> >
>

50. Re: 1A vs 1B

Yahoo group: pixel_loop
Date: 2012-03-26 19:48:45 UTC
From: doug12455
Topic: 45 Message: 50

Larry I must correct myself and you're indeed correct. But reading what you've posted reminded me of something. The current amp used on the 1B is indeed the same amp used on the later 1A series (with very slight changes/updates as put too me for the 1B). I was told the performance difference between the later 1A and 1B is slight. What the cutoff date is or how to tell I do not know. So my statement about mechanical difference is in reference to the later 1A vs the 1B. Now not to play "cloak & dagger", but who I learned that from asked me specifically not to mention names. So out of respect for anyone who ask me not to mention names, that is why I said reliable source. If anyone says different from my understanding, I wont debate it as I simply cannot prove it.

Obviously until someone compares a 1A (properly operating) and 1B, plus any reliable posted/documented changes. Who's to say what the real difference is aside from a performance side by side comparison as you've stated.

Brian

--- In pixel_loop@yahoogroups.com, Larry Ewan <larry@...> wrote:
>
> If one goes to the Clifton Laboratories web site,
> http://www.cliftonlaboratories.com/Updates.htm and reads the 20 January
> 2012 entry it is clear that the 1B model amplifier is a new design
> developed by Clifton Labs for Pixel Technologies. There is no design
> disclosure on the site, so there is no easy way to do a quick engineering
> comparison, nor is it explicitly stated that the 1A model is not a Clifton
> design, but the implication is that it is not.
>
> What I can tell you is that I have used both versions as a result of a
> nearly direct lightning strike. Unfortunately, the 1A amp is just a
> pretty case now. From VLF to 80 meters there isn't an immediately obvious
> difference between them that my ears can hear or the S-meter on my Perseus
> shows. From 75 meters up, my perception is that the B is noticeably
> superior in signal detection on my system - both in signal strength and
> S/N ratio. I don't have the necessary test equipment to do an engineering
> comparison nor do I have the time or a functional 1A. Retirement has
> subjected me to way too many honey-dos to ever finish ;-)
>
> I can confirm that I had mechanical problems with the A model but the
> issues were easily and economically resolved using procedures from Pixel
> Tech.
>
> More info from Clifton Labs:
> http://www.cliftonlaboratories.com/Documents/Loop%20vs%20Loop%20Final-Final
> .pdf
>
> Given a choice between an A and B model, I will pick the B model every
> time for both the electrical performance improvement and the mechanical

> redesign. There may not be much actual difference in the electrical
> design, but there is a very noticeable difference in performance.
>
> Larry
>
> On 3/26/12 11:30 AM, "doug12455" <doug12455@...> wrote:
>
> >From what I've been told by VERY reliable sources, there is very little
> >electrical difference (changes to the amp). Most of the difference is in
> >the mechanical construction and improvements on internal connections and
> >such. I was told again by a VERY reliable source, they had issues with
> >the loop connection loosing/breaking contact or high resistance. Thereby
> >causing a loss of gain and/or higher noise levels.
> >
> >Brian
> >
> >--- In pixel_loop@yahoogroups.com, "Sal Marandola" <scmarandola@>
> >wrote:
> >>
> >> has any one tried the PRO-1a next to a 1B? I want to know if the
> >>diffrence is noticeable
> >>
> >>
> >> Sal
> >>
> >
>

51. Official Answer to Difference Between Pro-1A and 1B

Yahoo group: pixel_loop
Date: 2012-03-28 19:52:07 UTC
From: jsmith@mnsinc.com
Topic: 51 Message: 51

Following is from Doug Talley at Pixel and is the standard answer to questions about the difference between the Pro-1A and Pro-1B loops.

Jack K8ZOA

Thanks for your interest in our antenna. We no longer make the RF PRO-1A. We only sell the RF PRO-1B model now. We are constantly improving our products and incorporating various changes to improve overall performance and long-term reliability based on feedback we get from users. In the current version of the RF PRO-1B we have done some things to the preamp to eliminate an intermittent problem we initially had in some units that exhibited a parasitic oscillation, we also changed a transformer in the loop to improve its matching to the preamp and lower the overall noise floor of the loop / preamp configuration. We added a few things to the power inserter/ T/R switching module to improve its switching speed for CW users that were involved with full-break-in (QSK) mode CW at 60 WPM. We changed our power supply so it would run cooler. We made several mechanical changes that lowered the loop inductance and improved a problem we initially had with moisture ingress in some units. Most recently we changed slightly the circuit that interfaces with the KEY transceiver outputs to improve compatibility with some radios. We also have recently taken to welding some of the loop mechanical components together vs using rivets to get better more consistent RF conductivity at these interfaces.

52. Re: Official Answer to Difference Between Pro-1A and 1B

Yahoo group: pixel_loop
Date: 2012-03-29 03:49:16 UTC
From: Alex P
Topic: 51 Message: 52

Let me guess....probably used aluminum pop rivets.

Can anyone confirm this?

--- In pixel_loop@yahoogroups.com, "jsmith@..." <Jack.Smith@...> wrote:
>
> Following is from Doug Talley at Pixel and is the standard answer to questions about the difference between the Pro-1A and Pro-1B loops.
>
> Jack K8ZOA
>
>
> Thanks for your interest in our antenna. We no longer make the RF PRO-1A. We only sell the RF PRO-1B model now. We are constantly improving our products and incorporating various changes to improve overall performance and long-term reliability based on feedback we get from users. In the current version of the RF PRO-1B we have done some things to the preamp to eliminate an intermittent problem we initially had in some units that exhibited a parasitic oscillation, we also changed a transformer in the loop to improve its matching to the preamp and lower the overall noise floor of the loop / preamp configuration. We added a few things to the power inserter/ T/R switching module to improve its switching speed for CW users that were involved with full-break-in (QSK) mode CW at 60 WPM. We changed our power supply so it would run cooler. We made several mechanical changes that lowered the loop inductance and improved a problem we initially had with moisture ingress in some units. Most recently we changed slightly the circuit that interfaces with the KEY transceiver outputs to improve compatibility with some radios. We also have recently taken to welding some of the loop mechanical components together vs using rivets to get better more consistent RF conductivity at these interfaces.
>

53. Re: Official Answer to Difference Between Pro-1A and 1B

Yahoo group: pixel_loop
Date: 2012-03-29 16:54:28 UTC
From: doug12455
Topic: 51 Message: 53

Well regardless, I'm very happy with mine having spent many hours now all over the spectrum. Glad I purchased it with no regrets. It's a nice compliment and my antenna of choice over my 140'(noise monster) long-wire and 100' dipole.

Brian

--- In pixel_loop@yahoogroups.com, "jsmith@..." <Jack.Smith@...> wrote:
>
> Following is from Doug Talley at Pixel and is the standard answer to questions about the difference between the Pro-1A and Pro-1B loops.
>
> Jack K8ZOA
>
>
> Thanks for your interest in our antenna. We no longer make the RF PRO-1A. We only sell the RF PRO-1B model now. We are constantly improving our products and incorporating various changes to improve overall performance and long-term reliability based on feedback we get from users. In the current version of the RF PRO-1B we have done some things to the preamp to eliminate an intermittent problem we initially had in some units that exhibited a parasitic oscillation, we also changed a transformer in the loop to improve its matching to the preamp and lower the overall noise floor of the loop / preamp configuration. We added a few things to the power inserter/ T/R switching module to improve its switching speed for CW users that were involved with full-break-in (QSK) mode CW at 60 WPM. We changed our power supply so it would run cooler. We made several mechanical changes that lowered the loop inductance and improved a problem we initially had with moisture ingress in some units. Most recently we changed slightly the circuit that interfaces with the KEY transceiver outputs to improve compatibility with some radios. We also have recently taken to welding some of the loop mechanical components together vs using rivets to get better more consistent RF conductivity at these interfaces.
>

54. Any Pixel plans for a Tx loop?

Yahoo group: pixel_loop
Date: 2012-04-20 22:25:51 UTC
From: Ken N9VV
Topic: 54 Message: 54

Hi Pixel Loop group,
does anyone know if Pixel ever plans to look into
a loop antenna that you can transmit from (Ham bands)?

I see that there is a loop antenna from MFJ that is very
expensive and probably does not have any preamp like the
Pixel-B.

Are there other Loop Tx solutions that you could
recommend to a space-limited Ham?

thank you very much for reading my email,
all the best,
73 de Ken N9VV

55. Re: Any Pixel plans for a Tx loop?

Yahoo group: pixel_loop
Date: 2012-04-21 04:55:56 UTC
From: joe_katz
Topic: 54 Message: 55

Hi Ken, nice to run into you again.

I asked a Pixel rep about this at a hamfest last summer, and unfortunately they had no such plans at the time. He mentioned the expensive capacitors and limited market for a truly high-quality transmitting loop.

There are many good project ideas out there on the web though, and some very interesting finished products out of Europe where limited space is more common. Here are two examples, one QRP and one QRO:

AlexLoop
http://www.eham.net/reviews/detail/9012

I3VHF Baby & Midi Loops (sorry if this link breaks...)
http://www.wimo.com/cgi-bin/verteiler.pl?url=magnetic-loop-antennas_e.html

There's also a *massive* Maxi Loop. Download the PDF booklet on that WiMo page, it's very interesting.

73 de Joe K6ATZ

--- In pixel_loop@yahoogroups.com, Ken N9VV <n9vv@...> wrote:
>
> Hi Pixel Loop group,
> does anyone know if Pixel ever plans to look into
> a loop antenna that you can transmit from (Ham bands)?
>
> I see that there is a loop antenna from MFJ that is very
> expensive and probably does not have any preamp like the
> Pixel-B.
>
> Are there other Loop Tx solutions that you could
> recommend to a space-limited Ham?
>
> thank you very much for reading my email,
> all the best,
> 73 de Ken N9VV
>

56. Re: [pixel_loop] Re: Any Pixel plans for a Tx loop?

Yahoo group: pixel_loop
Date: 2012-04-21 15:17:55 UTC
From: Ken N9VV
Topic: 54 Message: 56

O.K. great Joe,
thank you for these leads and interesting pdf to look for.
I know there home-brew solutions and I wondered if in the
past few years someone had actually started selling a Tx
loop :-)

mny tnx,
73 de Ken

On 4/20/2012 11:55 PM, joe_katz wrote:
> Hi Ken, nice to run into you again.
>
> I asked a Pixel rep about this at a hamfest last summer, and
> unfortunately they had no such plans at the time. He mentioned the
> expensive capacitors and limited market for a truly high-quality
> transmitting loop.
>
> There are many good project ideas out there on the web though, and some
> very interesting finished products out of Europe where limited space is
> more common. Here are two examples, one QRP and one QRO:
>
> AlexLoop
> http://www.eham.net/reviews/detail/9012
>
> I3VHF Baby & Midi Loops (sorry if this link breaks...)
> http://www.wimo.com/cgi-bin/verteiler.pl?url=magnetic-loop-antennas_e.html
>
> There's also a *massive* Maxi Loop. Download the PDF booklet on that
> WiMo page, it's very interesting.
>
> 73 de Joe K6ATZ
>
> --- In pixel_loop@yahoogroups.com <mailto:pixel_loop%40yahoogroups.com>,
> Ken N9VV <n9vv@...> wrote:
> >
> > Hi Pixel Loop group,
> > does anyone know if Pixel ever plans to look into
> > a loop antenna that you can transmit from (Ham bands)?
> >
> > I see that there is a loop antenna from MFJ that is very
> > expensive and probably does not have any preamp like the
> > Pixel-B.
> >
> > Are there other Loop Tx solutions that you could
> > recommend to a space-limited Ham?

> >
> > thank you very much for reading my email,
> > all the best,
> > 73 de Ken N9VV
> >
>
>

57. Pixel loop antenna problems

Yahoo group: pixel_loop
Date: 2012-06-08 16:22:36 UTC
From: Brant
Topic: 57 Message: 57

Does it anybody out there have problems with your loop as there it just more noise than my 300 ft beverage antenna. I thought this loop would improve reception. Is there something wrong with my loop? I have put the loop 35-40 ft from my house and it is 40-50 ft from power line for all the houses in the neighborhood. I also bought the wire that they recommended. I also thought this would be a good medium wave loop to do some dxing. Are there any suggestions?
Thank you,
Brant

58. Re: [pixel_loop] Pixel loop antenna problems

Yahoo group: pixel_loop
Date: 2012-06-08 17:07:35 UTC
From: Jack Smith
Topic: 57 Message: 58

The proper comparison is to compare signal levels and noise levels between the two antennas. That one antenna has higher or lower noise than the other is meaningless by itself; rather it's the S/N that is important.

Jack

On 6/8/2012 12:22 PM, Brant wrote:
>
>
> Does it anybody out there have problems with your loop as there it
> just more noise than my 300 ft beverage antenna. I thought this loop
> would improve reception. Is there something wrong with my loop? I have
> put the loop 35-40 ft from my house and it is 40-50 ft from power line
> for all the houses in the neighborhood. I also bought the wire that
> they recommended. I also thought this would be a good medium wave loop
> to do some dxing. Are there any suggestions?
> Thank you,
> Brant
>
>

59. Re: Pixel loop antenna problems

Yahoo group: pixel_loop
Date: 2012-06-11 02:08:04 UTC
From: doug12455
Topic: 57 Message: 59

Not sure what problem you're having with it. Mine functions as designed. Compared to my fan 80m through 10m dipole, it has similar signal strength reception, but the loop is superior in signal to noise. Sometimes there is an extreme difference especially in the low bands and MW BCB. I have it sitting on a cheap Rat Shack TV rotor 10' off the ground. Nulling is nice, something you can never do with a wire. Also if you're out in the middle of gods country, your noise levels may be fairly low as it is. Me, I suffer all sorts of man made RF hash so again this loop has been a big improvement in many areas. BTW I'm using it with a Perseus SDR. 300' of wire properly grounded & matched with a receive balun has a hell of a capture area. For signal strength that is going to be tough to beat with a 3' loop. Only advantage I see with the loop is signal to noise and the fact you can get some null on it.

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, "Brant" <branthunt@...> wrote:
>
>
> Does it anybody out there have problems with your loop as there it just more noise than my 300 ft beverage antenna. I thought this loop would improve reception. Is there something wrong with my loop? I have put the loop 35-40 ft from my house and it is 40-50 ft from power line for all the houses in the neighborhood. I also bought the wire that they recommended. I also thought this would be a good medium wave loop to do some dxing. Are there any suggestions?
> Thank you,
> Brant
>

60. Re: Pixel loop antenna problems

Yahoo group: pixel_loop
Date: 2012-06-12 20:41:47 UTC
From: jay_hendershott
Topic: 57 Message: 60

Hello Brant,

I had the same concerns when I purchased and in stalled my Pro 1B. I searched the web and heard many positive remarks regarding the performance of this antenna. I was a little shocked when I first used it as the signal strength compared to my OCF dipole was roughly one to two S units down from the dipole. I contacted Pixel and was very pleased with the staff and how they answered my questions and the guidance they gave me. The biggest point Pixel made to me was to compare signals on the same receiver side by side with loop and the dipole. They suggested I use an antenna switch so I could quickly go from one antenna to another. This is when I realized how well the Pixel works. Signal strength was down with the Pixel as I said but so was noise. To combat the lower signal strength Pixel suggested I increase my IF level on my SDR software and use the preamp on my FT-450D. Both helped quite a bit. As far as NDB reception I can tell you that I am hearing signals that I could not hear before. I can switch from the Pixel to my dipole and completely lose the signal. Switch back to the Pixel and there it is again. Let us know if you have any other questions or need any help.

Thanks

Jay

--- In pixel_loop@yahoogroups.com, "Brant" <branthunt@...> wrote:
>
>
> Does it anybody out there have problems with your loop as there it just more noise than my 300 ft beverage antenna. I thought this loop would improve reception. Is there something wrong with my loop? I have put the loop 35-40 ft from my house and it is 40-50 ft from power line for all the houses in the neighborhood. I also bought the wire that they recommended. I also thought this would be a good medium wave loop to do some dxing. Are there any suggestions?
> Thank you,
> Brant
>

61. Anyone own a Par 45' EF-SWL?

Yahoo group: pixel_loop
Date: 2012-06-26 15:25:54 UTC
From: jay_hendershott
Topic: 61 Message: 61

Hello group,

If so I am curious how it compares to the Pixel loop regarding signal to noise level etc. Lots of great reviews of this wire antenna on the net.

Thanks

Jay

62. Re: Anyone own a Par 45' EF-SWL?

Yahoo group: pixel_loop
Date: 2012-06-26 16:23:20 UTC
From: doug12455
Topic: 61 Message: 62

Jay that is a simple long wire antenna using a 9:1 un-un. I have (though now removed) a home made 100' long wire using the same 9:1 un-un. Works nicely but still brought in more noise than the Pixel. Signal strengths were at times greater on the long wire depending on band. Most times the signal to noise ratio was far worse on the long wire (again depending). It's generally hard to beat a magnetic active loop in most cases. Tuned active loops are even better if you would like to build your own. A properly built tuned active loop really pulls in the signals with low noise.

Brian

--- In pixel_loop@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:
>
> Hello group,
>
> If so I am curious how it compares to the Pixel loop regarding signal to noise level etc. Lots of great reviews of this wire antenna on the net.
>
> Thanks
>
> Jay
>

63. Re: Anyone own a Par 45' EF-SWL?

Yahoo group: pixel_loop
Date: 2012-06-26 16:34:22 UTC
From: doug12455
Topic: 61 Message: 63

BTW, if you need wire for a home built antenna. I suggest Davis wire.

http://www.davisrf.com/antenna-wire/index.php

Brian

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Jay that is a simple long wire antenna using a 9:1 un-un. I have (though now removed) a home made 100' long wire using the same 9:1 un-un. Works nicely but still brought in more noise than the Pixel. Signal strengths were at times greater on the long wire depending on band. Most times the signal to noise ratio was far worse on the long wire (again depending). It's generally hard to beat a magnetic active loop in most cases. Tuned active loops are even better if you would like to build your own. A properly built tuned active loop really pulls in the signals with low noise.
>
> Brian
>
> --- In pixel_loop@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
> >
> > Hello group,
> >
> > If so I am curious how it compares to the Pixel loop regarding signal to noise level etc. Lots of great reviews of this wire antenna on the net.
> >
> > Thanks
> >
> > Jay
> >
>

64. Re: Anyone own a Par 45' EF-SWL?

Yahoo group: pixel_loop
Date: 2012-06-26 18:39:59 UTC
From: jay_hendershott
Topic: 61 Message: 64

Hello Brian,

Thanks for the info on the long wire amd the davisrf link. I have been planning to build an 75 meter tuned magnetic loop so the link is very helpful. I found a local electronics surplus dealer here in town who has quite a few variable capacitors for the job. Curious with the Par 45 how the different ground lugs and the jumper can improve SNR with this antenna? Been thinking of building one of these as with my Pixel I am unable to use a rotator due to antennas location. I need to keep it hidden to a certain degree. Been thinking of decorating it with beads and feathers so I can move it to the orner of our property. Tell the neighbors it is a dream catcher!

Thanks

Jay
K7GFH

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> BTW, if you need wire for a home built antenna. I suggest Davis wire.
>
> http://www.davisrf.com/antenna-wire/index.php
>
> Brian
>
> --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> >
> > Jay that is a simple long wire antenna using a 9:1 un-un. I have (though now removed) a home made 100' long wire using the same 9:1 un-un. Works nicely but still brought in more noise than the Pixel. Signal strengths were at times greater on the long wire depending on band. Most times the signal to noise ratio was far worse on the long wire (again depending). It's generally hard to beat a magnetic active loop in most cases. Tuned active loops are even better if you would like to build your own. A properly built tuned active loop really pulls in the signals with low noise.
> >
> > Brian
> >
> > --- In pixel_loop@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
> > >
> > > Hello group,
> > >
> > > If so I am curious how it compares to the Pixel loop regarding signal to noise level etc. Lots of great reviews of this wire antenna on the net.
> > >
> > > Thanks
> > >
> > > Jay

> > >
> >
>

65. Recording or YouTube video of SNR between Pixel and other antennas

Yahoo group: pixel_loop
Date: 2012-06-26 18:54:58 UTC
From: jay_hendershott
Topic: 65 Message: 65

Hello Group,

I have been wanting to have a few examples of Pixel performance vs dipoles, beams, Hex etc etc type antennas. It seems that quite a few people question the effectiveness of the Pixel antenna or are concerned about the strength of received signals compared to other antennas. Some do not have an antenna switch to go from one to the other, some do not have another antenna to compare with. There are a couple of examples on YouTube but I wanted to ask if anyone here had either audio only or audio and video of the benefits this antenna brings to he table. If so and they are not to large of a file could you save it in our files section for new members to watch? I believe we are limited to 100MB in the files section so video maybe out, possibly a YouTube link?

Thanks all,

Jay

66. Re: [pixel_loop] Re: Anyone own a Par 45' EF-SWL?

Yahoo group: pixel_loop
Date: 2012-06-26 20:21:16 UTC
From: Steve Ratzlaff
Topic: 61 Message: 66

Like another poster I've used a homebrew version of the PAR antenna. It worked well. The PAR version is superbly built and should last forever. I didn't compare it with the Pixel loop. The various ground attachments for the PAR are for different grounding arrangements one might have available. Generally lowest noise results from isolating the antenna secondary winding from the primary/coax and grounding the secondary side to a separate ground rod.
73,
Steve AA7U
NE Oregon

On 6/26/2012 11:39 AM, jay_hendershott wrote:
> Hello Brian,
>
> Thanks for the info on the long wire amd the davisrf link. I have been
> planning to build an 75 meter tuned magnetic loop so the link is very
> helpful. I found a local electronics surplus dealer here in town who has
> quite a few variable capacitors for the job. Curious with the Par 45 how
> the different ground lugs and the jumper can improve SNR with this
> antenna? Been thinking of building one of these as with my Pixel I am
> unable to use a rotator due to antennas location. I need to keep it
> hidden to a certain degree. Been thinking of decorating it with beads
> and feathers so I can move it to the orner of our property. Tell the
> neighbors it is a dream catcher!
>
> Thanks
>
> Jay
> K7GFH

67. Mounting Question For Pixel Loop

Yahoo group: pixel_loop
Date: 2012-07-02 17:45:54 UTC
From: gatorman_71
Topic: 67 Message: 67

I have not installed mine yet. Instructions say away from house, etc. but I see mounting options close to structures. I plan on using mine for 40/80 meter reception.

1. Do we think I need a rotator?

2. If so, how do we think it would perform on a small mast next to my house that already has a light rotator on it. Antenna wouldn't be that high, 15' or so and wouldn't clear peak of roof.

Thanks in advance for your thoughts.

Steve, N4JQQ

68. Re: Mounting Question For Pixel Loop

Yahoo group: pixel_loop
Date: 2012-07-03 01:34:42 UTC
From: doug12455
Topic: 67 Message: 68

Well like any antenna, it depends. If the home has aluminum siding that will effect the patterns received. So have had good luck while others needed to get away from the home for both interaction and noise issues. Mine is at least 20' away from any sizable metal structure. I also use it on 160/75/40 with excellent results for receiving.

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, "gatorman_71" <crownhaven@...> wrote:
>
> I have not installed mine yet. Instructions say away from house, etc. but I see mounting options close to structures. I plan on using mine for 40/80 meter reception.
>
> 1. Do we think I need a rotator?
>
> 2. If so, how do we think it would perform on a small mast next to my house that already has a light rotator on it. Antenna wouldn't be that high, 15' or so and wouldn't clear peak of roof.
>
> Thanks in advance for your thoughts.
>
> Steve, N4JQQ
>

69. Re: [pixel_loop] Re: Mounting Question For Pixel Loop

Yahoo group: pixel_loop
Date: 2012-07-03 02:06:12 UTC
From: Crownhaven
Topic: 67 Message: 69

Brian, thanks. Do you find you need a rotator?

On 7/2/2012 8:34 PM, doug12455 wrote:
>
> Well like any antenna, it depends. If the home has aluminum siding
> that will effect the patterns received. So have had good luck while
> others needed to get away from the home for both interaction and noise
> issues. Mine is at least 20' away from any sizable metal structure. I
> also use it on 160/75/40 with excellent results for receiving.
>
> Brian - W8GTX
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "gatorman_71" <crownhaven@...>
> wrote:
> >
> > I have not installed mine yet. Instructions say away from house,
> etc. but I see mounting options close to structures. I plan on using
> mine for 40/80 meter reception.
> >
> > 1. Do we think I need a rotator?
> >
> > 2. If so, how do we think it would perform on a small mast next to
> my house that already has a light rotator on it. Antenna wouldn't be
> that high, 15' or so and wouldn't clear peak of roof.
> >
> > Thanks in advance for your thoughts.
> >
> > Steve, N4JQQ
> >
>
>

70. Re: Mounting Question For Pixel Loop

Yahoo group: pixel_loop
Date: 2012-07-03 04:29:38 UTC
From: doug12455
Topic: 67 Message: 70

Depends. Sky-wave the loop has little effect if any at times. A loop is fairly broad as it is. I find on the lower bands such as 160/75 it can make the difference. But one area where rotating it can make a big difference is interference especially from local QRM. Heck I'm using a 30 y.o. TV rotator my neighbor gave me a few years back. I like to save those old rotator for projects like this. Mounted it 10' off the ground behind the garage. Then ran the cable from the top of the garage over to the house and in the upstairs room. The cable is properly tied from the garage and house to avoid stressing the cable.

Brian

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
>
> Brian, thanks. Do you find you need a rotator?
>
> On 7/2/2012 8:34 PM, doug12455 wrote:
> >
> > Well like any antenna, it depends. If the home has aluminum siding
> > that will effect the patterns received. So have had good luck while
> > others needed to get away from the home for both interaction and noise
> > issues. Mine is at least 20' away from any sizable metal structure. I
> > also use it on 160/75/40 with excellent results for receiving.
> >
> > Brian - W8GTX
> >
> > --- In pixel_loop@yahoogroups.com
> > <mailto:pixel_loop%40yahoogroups.com>, "gatorman_71" <crownhaven@>
> > wrote:
> > >
> > > I have not installed mine yet. Instructions say away from house,
> > etc. but I see mounting options close to structures. I plan on using
> > mine for 40/80 meter reception.
> > >
> > > 1. Do we think I need a rotator?
> > >
> > > 2. If so, how do we think it would perform on a small mast next to
> > my house that already has a light rotator on it. Antenna wouldn't be
> > that high, 15' or so and wouldn't clear peak of roof.
> > >
> > > Thanks in advance for your thoughts.
> > >
> > > Steve, N4JQQ
> > >
> >
> >
>

71. Grounding coax switch

Yahoo group: pixel_loop
Date: 2012-07-13 19:19:47 UTC
From: aa0bw
Topic: 71 Message: 71

Is it safe use a coax switch that grounds the unused ports? I would think that shorting the coax would damage the power supply for the PRO1B loop amp. For me the receive is better on 10 and 6 meters with my dipole, and I also have a 125'long wire that I like to switch in at times.

Thanks! Bob AA0BW

72. Re: Grounding coax switch

Yahoo group: pixel_loop
Date: 2012-07-14 15:15:11 UTC
From: doug12455
Topic: 71 Message: 72

Bob I've been using a grounded (antennas other than the loop are grounded) antenna switch for some time now without any issues. This is being done between the receiver and antenna amplifier power supply.

Brian

--- In pixel_loop@yahoogroups.com, "aa0bw" <aa0bw@...> wrote:
>
> Is it safe use a coax switch that grounds the unused ports? I would think that shorting the coax would damage the power supply for the PRO1B loop amp. For me the receive is better on 10 and 6 meters with my dipole, and I also have a 125'long wire that I like to switch in at times.
>
> Thanks! Bob AA0BW
>

73. 160 meters - signal strength

Yahoo group: pixel_loop
Date: 2012-07-14 15:48:01 UTC
From: k0mu
Topic: 73 Message: 73

Signals on 160 meters seem quite weak.

What are other users getting?

Not sure if I have a problem.

74. Re: [pixel_loop] 160 meters - signal strength

Yahoo group: pixel_loop
Date: 2012-07-15 03:07:05 UTC
From: Crownhaven
Topic: 73 Message: 74

Compared to?

Steve, N4JQQ

On 7/14/2012 10:48 AM, k0mu wrote:
>
> Signals on 160 meters seem quite weak.
>
> What are other users getting?
>
> Not sure if I have a problem.
>
>

75. Re: 160 meters - signal strength

Yahoo group: pixel_loop
Date: 2012-07-15 04:46:19 UTC
From: k0mu
Topic: 73 Message: 75

No comparison to anything. Just want to know what others are observing with the loop.

I've never seen signals above s8 on 160.

Rig is a TenTec O7. Supposedly the S-meter is calibrated quite well on the TenTec. Ideally, I'd like to see what others with the O7 are seeing.

Even though I've been a ham since 78, I have no real experience with 160. 160 doesn't seem to be very busy.

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
>
> Compared to?
>
> Steve, N4JQQ
>
> On 7/14/2012 10:48 AM, k0mu wrote:
> >
> > Signals on 160 meters seem quite weak.
> >
> > What are other users getting?
> >
> > Not sure if I have a problem.
> >
> >
>

76. Re: 160 meters - signal strength

Yahoo group: pixel_loop
Date: 2012-07-15 06:19:34 UTC
From: doug12455
Topic: 73 Message: 76

Since I have nothing more than a 100' dipole to compare it with, the loop picks signals out slightly stronger and with much improved signal to noise. The only place my loop loses to the dipole is in the 75/60/40 meter bands (in that general range). But not by much and never better in the signal to noise.

Brian

--- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@...> wrote:
>
> No comparison to anything. Just want to know what others are observing with the loop.
>
> I've never seen signals above s8 on 160.
>
> Rig is a TenTec O7. Supposedly the S-meter is calibrated quite well on the TenTec. Ideally, I'd like to see what others with the O7 are seeing.
>
> Even though I've been a ham since 78, I have no real experience with 160. 160 doesn't seem to be very busy.
>
>
>
>
> --- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@> wrote:
> >
> > Compared to?
> >
> > Steve, N4JQQ
> >
> > On 7/14/2012 10:48 AM, k0mu wrote:
> > >
> > > Signals on 160 meters seem quite weak.
> > >
> > > What are other users getting?
> > >
> > > Not sure if I have a problem.
> > >
> > >
> >
>

77. Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-15 21:12:37 UTC
From: k0mu
Topic: 73 Message: 77

The cross member that goes along the vertical diameter had a broken seal. The place where the hoop comes together was full of water. There is corrosion on the circuit board therein and also the attachment bolts.

Going to clean it up more and then seal the vertical cross member where it attaches.

Did some preliminary wiggling and AM broadcast signals came up tremendously.

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Since I have nothing more than a 100' dipole to compare it with, the loop picks signals out slightly stronger and with much improved signal to noise. The only place my loop loses to the dipole is in the 75/60/40 meter bands (in that general range). But not by much and never better in the signal to noise.
>
> Brian
>
> --- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@> wrote:
> >
> > No comparison to anything. Just want to know what others are observing with the loop.
> >
> > I've never seen signals above s8 on 160.
> >
> > Rig is a TenTec O7. Supposedly the S-meter is calibrated quite well on the TenTec. Ideally, I'd like to see what others with the O7 are seeing.
> >
> > Even though I've been a ham since 78, I have no real experience with 160. 160 doesn't seem to be very busy.
> >
> >
> >
> >
> > --- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@> wrote:
> > >
> > > Compared to?
> > >
> > > Steve, N4JQQ
> > >
> > > On 7/14/2012 10:48 AM, k0mu wrote:
> > > >
> > > > Signals on 160 meters seem quite weak.
> > > >
> > > > What are other users getting?
> > > >
> > > > Not sure if I have a problem.
> > > >

> > > >
> > >
> >
>

78. Re: Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-16 04:23:51 UTC
From: doug12455
Topic: 73 Message: 78

Is your loop a 1A or 1B model??

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@...> wrote:
>
> The cross member that goes along the vertical diameter had a broken seal. The place where the hoop comes together was full of water. There is corrosion on the circuit board therein and also the attachment bolts.
>
> Going to clean it up more and then seal the vertical cross member where it attaches.
>
> Did some preliminary wiggling and AM broadcast signals came up tremendously.
>
> --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> >
> > Since I have nothing more than a 100' dipole to compare it with, the loop picks signals out slightly stronger and with much improved signal to noise. The only place my loop loses to the dipole is in the 75/60/40 meter bands (in that general range). But not by much and never better in the signal to noise.
> >
> > Brian
> >
> > --- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@> wrote:
> > >
> > > No comparison to anything. Just want to know what others are observing with the loop.
> > >
> > > I've never seen signals above s8 on 160.
> > >
> > > Rig is a TenTec O7. Supposedly the S-meter is calibrated quite well on the TenTec. Ideally, I'd like to see what others with the O7 are seeing.
> > >
> > > Even though I've been a ham since 78, I have no real experience with 160. 160 doesn't seem to be very busy.
> > >
> > >
> > >
> > >
> > > --- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@> wrote:
> > > >
> > > > Compared to?
> > > >
> > > > Steve, N4JQQ
> > > >
> > > > On 7/14/2012 10:48 AM, k0mu wrote:

> > > > >
> > > > > Signals on 160 meters seem quite weak.
> > > > >
> > > > > What are other users getting?
> > > > >
> > > > > Not sure if I have a problem.
> > > > >
> > > > >
> > > >
> > >
> >
>

79. Re: [pixel_loop] Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-16 14:46:50 UTC
From: Crownhaven
Topic: 73 Message: 79

Thanks for following up. Would it be possible for you to send me a
digital photo of what happened if possible? Or post it for the group?

Steve, N4JQQ

On 7/15/2012 4:12 PM, k0mu wrote:
>
> The cross member that goes along the vertical diameter had a broken
> seal. The place where the hoop comes together was full of water. There
> is corrosion on the circuit board therein and also the attachment bolts.
>
> Going to clean it up more and then seal the vertical cross member
> where it attaches.
>
> Did some preliminary wiggling and AM broadcast signals came up
> tremendously.
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@...> wrote:
> >
> > Since I have nothing more than a 100' dipole to compare it with, the
> loop picks signals out slightly stronger and with much improved signal
> to noise. The only place my loop loses to the dipole is in the
> 75/60/40 meter bands (in that general range). But not by much and
> never better in the signal to noise.
> >
> > Brian
> >
> > --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "k0mu" <jaylyle@> wrote:
> > >
> > > No comparison to anything. Just want to know what others are
> observing with the loop.
> > >
> > > I've never seen signals above s8 on 160.
> > >
> > > Rig is a TenTec O7. Supposedly the S-meter is calibrated quite
> well on the TenTec. Ideally, I'd like to see what others with the O7
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> > > > Steve, N4JQQ
> > > >
> > > > On 7/14/2012 10:48 AM, k0mu wrote:
> > > > >
> > > > > Signals on 160 meters seem quite weak.
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80. Re: Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-17 01:20:35 UTC
From: k0mu
Topic: 73 Message: 80

1A.

The way it was designed, it was bound to fail. Looks like just a bead of silicon.

Another poster has requested a picture. This will follow.

Jay

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Is your loop a 1A or 1B model??
>
> Brian - W8GTX
>
> --- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@> wrote:
> >
> > The cross member that goes along the vertical diameter had a broken seal. The place where the hoop comes together was full of water. There is corrosion on the circuit board therein and also the attachment bolts.
> >
> > Going to clean it up more and then seal the vertical cross member where it attaches.
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> > Did some preliminary wiggling and AM broadcast signals came up tremendously.
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> > --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
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> > > > I've never seen signals above s8 on 160.
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> > > > Rig is a TenTec O7. Supposedly the S-meter is calibrated quite well on the TenTec. Ideally, I'd like to see what others with the O7 are seeing.
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> > > > Even though I've been a ham since 78, I have no real experience with 160. 160 doesn't seem to be very busy.
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81. Re: Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-17 02:34:12 UTC
From: doug12455
Topic: 73 Message: 81

Thanks Jay. Yes, that was a known issue with the 1A. Even though the 1B loop is better constructed and I haven't heard of this occurring with it. I still sealed the ends with coaxial sealant anyhow.

Brian

--- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@...> wrote:
>
> 1A.
>
> The way it was designed, it was bound to fail. Looks like just a bead of silicon.
>
> Another poster has requested a picture. This will follow.
>
> Jay
>
> --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> >
> > Is your loop a 1A or 1B model??
> >
> > Brian - W8GTX
> >
> > --- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@> wrote:
> > >
> > > The cross member that goes along the vertical diameter had a broken seal. The place where the hoop comes together was full of water. There is corrosion on the circuit board therein and also the attachment bolts.
> > >
> > > Going to clean it up more and then seal the vertical cross member where it attaches.
> > >
> > > Did some preliminary wiggling and AM broadcast signals came up tremendously.
> > >
> > > --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> > > >
> > > > Since I have nothing more than a 100' dipole to compare it with, the loop picks signals out slightly stronger and with much improved signal to noise. The only place my loop loses to the dipole is in the 75/60/40 meter bands (in that general range). But not by much and never better in the signal to noise.
> > > >
> > > > Brian
> > > >
> > > > --- In pixel_loop@yahoogroups.com, "k0mu" <jaylyle@> wrote:
> > > > >
> > > > > No comparison to anything. Just want to know what others are observing with the loop.

> > > > >
> > > > > I've never seen signals above s8 on 160.
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> > > > > --- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@> wrote:
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> > > > > > On 7/14/2012 10:48 AM, k0mu wrote:
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82. Re: [pixel_loop] Re: Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-17 03:16:50 UTC
From: Crownhaven
Topic: 73 Message: 82

Thanks Jay. I have a 1B that I haven't put up yet. I wonder if this issue was corrected. Good luck and looking forward to your pic.

Steve, N4JQQ

On 7/16/2012 8:20 PM, k0mu wrote:
>
> 1A.
>
> The way it was designed, it was bound to fail. Looks like just a bead
> of silicon.
>
> Another poster has requested a picture. This will follow.
>
> Jay
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@...> wrote:
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> > Is your loop a 1A or 1B model??
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> > Brian - W8GTX
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> tremendously.
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> > > --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@> wrote:
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> > > > Since I have nothing more than a 100' dipole to compare it with,
> the loop picks signals out slightly stronger and with much improved
> signal to noise. The only place my loop loses to the dipole is in the
> 75/60/40 meter bands (in that general range). But not by much and

> never better in the signal to noise.
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> > > > Brian
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> > > > --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "k0mu" <jaylyle@> wrote:
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> > > > > No comparison to anything. Just want to know what others are
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83. Re: Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-17 03:45:16 UTC
From: doug12455
Topic: 73 Message: 83

Steve yes it has been. This improvement has been mentioned by Pixel themselves.

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
>
> Thanks Jay. I have a 1B that I haven't put up yet. I wonder if this
> issue was corrected. Good luck and looking forward to your pic.
>
> Steve, N4JQQ
>
> On 7/16/2012 8:20 PM, k0mu wrote:
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> > <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@> wrote:
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> > > Brian - W8GTX
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> > > > --- In pixel_loop@yahoogroups.com
> > <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@> wrote:
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> > > > > Since I have nothing more than a 100' dipole to compare it with,

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84. Re: [pixel_loop] Re: Was:160 meters - signal strength - broken seal, water present

Yahoo group: pixel_loop
Date: 2012-07-17 12:11:48 UTC
From: Crownhaven
Topic: 73 Message: 84

Thanks much. Great group. I appreciate it.

Steve, N4JQQ

PS, will try to get mine up this weekend possibly. Pretty hot here.
Planned to install it on rotator on mast next to house, about 15' off
ground. Will see how that works.

On 7/16/2012 10:45 PM, doug12455 wrote:
>
> Steve yes it has been. This improvement has been mentioned by Pixel
> themselves.
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, Crownhaven <crownhaven@...> wrote:
> >
> > Thanks Jay. I have a 1B that I haven't put up yet. I wonder if this
> > issue was corrected. Good luck and looking forward to your pic.
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> > Steve, N4JQQ
> >
> > On 7/16/2012 8:20 PM, k0mu wrote:
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> > > 1A.
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> > > Jay
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> <mailto:pixel_loop%40yahoogroups.com>
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> > > <mailto:pixel_loop%40yahoogroups.com>, "k0mu" <jaylyle@> wrote:
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> > > > > > --- In pixel_loop@yahoogroups.com
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85. Pro 1B Questions

Yahoo group: pixel_loop
Date: 2012-08-20 16:17:59 UTC
From: Wm Marvin
Topic: 85 Message: 85

Hi Group In a few weeks I'll be ordering a Pro 1B system. I have been reading the instructions and other info on this product.

The Loop will be 100 + ft from any metal or noise source and mounted at 8 feet on heavy duty PVC pipe. My questions are these.

The lead-in will be 150 Ft of quad RG6 buried at 4" in the ground for 75 ft then unburied for the remainder .Will I need common mode chokes on either feed line end???

If a rotor is installed would the rotor lead-in feed electrical noise at the antenna feed point and or into the shack/receiver???

I'm looking forward to this antenna and any advice, tips are welcome.

73

Bill KB9IV

86. Re: Pro 1B Questions

Yahoo group: pixel_loop
Date: 2012-08-26 15:41:24 UTC
From: jay_hendershott
Topic: 85 Message: 86

Hello Bill and welcome to the group. My 2 cents worth are no and no! I am running about 75' now and will be extending that to over 100' at the new QTH in about 2 weeks. I have never needed a common mode choke. As far as the electrical feed to the rotator it should not be an issue unless you are having issues with the motor itself, arcing etc or a bad ground. If the rotor system is in tip top shape you will not have any noise at the receiver, even if you do it should only be while rotating.

Jay

--- In pixel_loop@yahoogroups.com, "Wm Marvin" <wmarvin2@...> wrote:
>
> Hi Group In a few weeks I'll be ordering a Pro 1B system. I have been reading the instructions and other info on this product.
>
> The Loop will be 100 + ft from any metal or noise source and mounted at 8 feet on heavy duty PVC pipe. My questions are these.
>
> The lead-in will be 150 Ft of quad RG6 buried at 4" in the ground for 75 ft then unburied for the remainder .Will I need common mode chokes on either feed line end???
>
> If a rotor is installed would the rotor lead-in feed electrical noise at the antenna feed point and or into the shack/receiver???
>
> I'm looking forward to this antenna and any advice, tips are welcome.
>
> 73
>
> Bill KB9IV
>

87. Hang it high?

Yahoo group: pixel_loop
Date: 2012-10-27 22:29:48 UTC
From: Ben
Topic: 87 Message: 87

Has anyone any experience with actually mounting the loop up high?

Every antenna I've ever used prior to this has benefited from additional height above ground. But mounting suggestions for the loop are uniformly low...

Assuming one could meet the other requirements, such as distance from house, distance from metal structure, is there any reason to think that the loop wouldn't perform better mounted, say, 75 feet in the air?

Anyone?

TIA

--Ben
AA7AS

88. Re: Hang it high?

Yahoo group: pixel_loop
Date: 2012-10-28 00:51:36 UTC
From: doug12455
Topic: 87 Message: 88

Actually yes there is an effect. It can be both positive and negative depending on the band being used and the noise issues (distance away). Someone did some math on this thought. Have a look at this thread and it is two pages long.

http://forums.radioreference.com/receive-antennas-below-30mhz/246590-pixel-pro-1b-loop-antenna.html

My own experience is limited but mine is currently 12' above ground. The loop is about 30' away from my home and I live is a suburban setting with 170' x 65' lots. I stuck mine up on the house at 40' above ground and I noticed no noticeable change to the low bands (40m and down) in signal strengths or noise, but actually never really tested above 40m so no comment on the high bands. Theory shows the loop does not benefit being placed high. It may show less noise but obviously only because you may be farther away from the source. My conclusion was simply no difference and not worth the effort as opposed to mounting it at ground level (10' in general)

Brian

--- In pixel_loop@yahoogroups.com, "Ben" <fyngyrz@...> wrote:
>
> Has anyone any experience with actually mounting the loop up high?
>
> Every antenna I've ever used prior to this has benefited from additional height above ground. But mounting suggestions for the loop are uniformly low...
>
> Assuming one could meet the other requirements, such as distance from house, distance from metal structure, is there any reason to think that the loop wouldn't perform better mounted, say, 75 feet in the air?
>
> Anyone?
>
> TIA
>
> --Ben
> AA7AS
>

89. Re: Hang it high?

Yahoo group: pixel_loop
Date: 2012-10-28 07:16:03 UTC
From: jay_hendershott
Topic: 87 Message: 89

--- In pixel_loop@yahoogroups.com, "Ben" <fyngyrz@...> wrote:
>
> Has anyone any experience with actually mounting the loop up high?
>
> Every antenna I've ever used prior to this has benefited from additional height above ground. But mounting suggestions for the loop are uniformly low...
>
> Assuming one could meet the other requirements, such as distance from house, distance from metal structure, is there any reason to think that the loop wouldn't perform better mounted, say, 75 feet in the air?
>
> Anyone?
>
> TIA
>
> --Ben
> AA7AS
>

Hello Ben,
I have mine mounted aporoximately 20 feet above ground on the side of my metal shop. The loop is roughly 50 feet from my house. I have had it mounted at 5 feet above ground also. I can tell you that the only difference I have noted by raising the loop height is on the higher bands, 10 meters for example and this is not a significant improvement. The best gain in performance I noted was increasing the distance of my loop from the house. If you would like to do some comparisons please give my loop and SDR a try at SDR-radio.com. User K7GFH. There is a java based app on the site or you can download sdr-radio and setup remote operation, again look for my callsign in the list.

Jay

90. Re: Hang it high?

Yahoo group: pixel_loop
Date: 2012-10-28 12:23:03 UTC
From: Anony Mous
Topic: 87 Message: 90

Thanks guys, terrific - that info is just what I was looking for.

Mine's at about 12 feet, with a rotator, about 35 feet from the nearest structure, mounted on (above) a small trailer so I can re-position it as needed... I've found the quietest place and that's where I leave it. Here's the setup:

http://www.flickr.com/photos/fyngyrz/6773021173/

I generally have it turned to reduce noise, and I get a significant drop in the noise floor by doing so. Lots of computers in the building, plus a 20+ node ethernet network, tons of compact fluorescents, etc.

Guess I'll leave it where it is, height-wise.

Much appreciated!

Also, for anyone who's thinking about the Pixel RFPRO 1B loop... it's a wonderful antenna, easily the best SW/AM antenna I've ever owned; and Pixel's service to me has been nothing less than outstanding.

--Ben
AA7AS

91. Re: [pixel_loop] Re: Hang it high?

Yahoo group: pixel_loop
Date: 2012-10-28 13:23:06 UTC
From: Bill & Becky
Topic: 87 Message: 91

Hi Ben I can mirror your experience. I just got mine and mounted it at 8' up and 55 feet away from my house. However at first I was horrified about its performance. First I was having a moderate buzzing noise on all frequencies at about S7.....what's going on?? I happened to walk outside it was dark out. To my surprise the north sky was a blaze with Northern lights.....that was the noise source. I live 46 North latitude so learned something new. Without NL's my radio has a S2 noise level on all freq's.....just as advertised!!
My 2nd problem. On 40 meters the whole band was awash with S8 continuous FM multi-tones.....again I walked outside and noticed to the northeast a 200' communications tower for the statewide power company substation 2 blocks away. So I went in the shack a rotated the loop east--northeast and like magic it was gone.....wonderful nulling!!

Another observation is the S2 radio level has very weak signals (DX) talking to each other on 40 mtr SSB late afternoon. I even have heard Europe calling the US yet no one replies.....perhaps other US hams cannot hear these signals but the Pro 1B will.

This loop can hear very very weak signals if one listens closely. I can attest to very weak US station reception using backscatter which would no doubt be masked by electrical noise on wire antenna's.

Best DX & 73

Bill KB9IV

----- Original Message -----
From: Anony Mous
To: pixel_loop@yahoogroups.com
Sent: Sunday, October 28, 2012 7:23 AM
Subject: [pixel_loop] Re: Hang it high?

Thanks guys, terrific - that info is just what I was looking for.

Mine's at about 12 feet, with a rotator, about 35 feet from the nearest structure, mounted on (above) a small trailer so I can re-position it as needed... I've found the quietest place and that's where I leave it. Here's the setup:

http://www.flickr.com/photos/fyngyrz/6773021173/

I generally have it turned to reduce noise, and I get a significant drop in the noise floor by doing so. Lots of computers in the building, plus a 20+ node ethernet network, tons of compact fluorescents, etc.

Guess I'll leave it where it is, height-wise.

Much appreciated!

Also, for anyone who's thinking about the Pixel RFPRO 1B loop... it's a wonderful antenna, easily the best SW/AM antenna I've ever owned; and Pixel's service to me has been nothing

less than outstanding.

--Ben
AA7AS

92. Re: Hang it high?

Yahoo group: pixel_loop
Date: 2012-10-28 20:52:29 UTC
From: doug12455
Topic: 87 Message: 92

Good point. I also have a resonant dipole for the 40/41m & 20m bands. Signal strengths are always higher with the dipoles compared to the loop, and for obvious reasons. But, actual signal to noise levels are almost always better on the loop. Especially in the 40/41/60m bands. Another words at times the signal is strong on the dipole, but almost covered by noise. While the same sig may only be an S7 on the loop, but very copyable due to the lower (sometimes much lower) noise floor.

It's not actual sig strengths I look for but better sig to noise ratio. The loop in almost every case, beats out my dipoles. That may not be true for everyone especially those that live in a fairly noise free environment. But I do not have that luxury.

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, "Bill & Becky" <wmarvin2@...> wrote:
>
> Hi Ben I can mirror your experience. I just got mine and mounted it at 8' up and 55 feet away from my house. However at first I was horrified about its performance. First I was having a moderate buzzing noise on all frequencies at about S7.....what's going on?? I happened to walk outside it was dark out. To my surprise the north sky was a blaze with Northern lights.....that was the noise source. I live 46 North latitude so learned something new. Without NL's my radio has a S2 noise level on all freq's.....just as advertised!!
> My 2nd problem. On 40 meters the whole band was awash with S8 continuous FM multi-tones.....again I walked outside and noticed to the northeast a 200' communications tower for the statewide power company substation 2 blocks away. So I went in the shack a rotated the loop east--northeast and like magic it was gone.....wonderful nulling!!
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> Another observation is the S2 radio level has very weak signals (DX) talking to each other on 40 mtr SSB late afternoon. I even have heard Europe calling the US yet no one replies.....perhaps other US hams cannot hear these signals but the Pro 1B will.
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> This loop can hear very very weak signals if one listens closely. I can attest to very weak US station reception using backscatter which would no doubt be masked by electrical noise on wire antenna's.
>
> Best DX & 73
>
> Bill KB9IV
>
>
> ----- Original Message -----
> From: Anony Mous
> To: pixel_loop@yahoogroups.com
> Sent: Sunday, October 28, 2012 7:23 AM
> Subject: [pixel_loop] Re: Hang it high?
>

>
>
> Thanks guys, terrific - that info is just what I was looking for.
>
>
>
> Mine's at about 12 feet, with a rotator, about 35 feet from the nearest structure, mounted on (above) a small trailer so I can re-position it as needed... I've found the quietest place and that's where I leave it. Here's the setup:
>
>
> http://www.flickr.com/photos/fyngyrz/6773021173/
>
>
> I generally have it turned to reduce noise, and I get a significant drop in the noise floor by doing so. Lots of computers in the building, plus a 20+ node ethernet network, tons of compact fluorescents, etc.
>
>
> Guess I'll leave it where it is, height-wise.
>
>
> Much appreciated!
>
>
> Also, for anyone who's thinking about the Pixel RFPRO 1B loop... it's a wonderful antenna, easily the best SW/AM antenna I've ever owned; and Pixel's service to me has been nothing less than outstanding.
>
>
> --Ben
> AA7AS
>

93. Small changes in height

Yahoo group: pixel_loop
Date: 2012-12-02 18:08:58 UTC
From: Phillip
Topic: 93 Message: 93

Greetings,

I just joined the group. I have had my Pro 1B up since last summer. It receives fairly well on 40 and 80 meters with lower signal levels than my vertical but generally less noise. It's still noisier than I would like. I am in a fairly noisy suburban location with decent lot spacing but with some high tension lines running about 200 yards from my house. This weekend I operated on 160 for the first time with the loop. I was surprised that the noise level wasn't a lot lower than the vertical. Even rotating the loop didn't change much.

The loop is mounted 6 ft high, about 4 ft from my wood frame screen porch and about 20 from the walls of my house. The house has aluminum siding and gutters. I might try to experiment with the height, which I could do fairly easily. Moving it further from the house is doable but the rotator cable would need to be extended and run under ground- a more significant project. I also need to stay away from my transmitting antenna.

Is a few feet change in height likely to improve performance? Is 10 ft more likely to be better than 3 ft? I have seen a lot of pictures of Wellbrook loops sitting really close to the ground.

Any suggestions appreciated.

Thanks,

Phil N3ZP

94. Re: [pixel_loop] Small changes in height

Yahoo group: pixel_loop
Date: 2012-12-02 19:38:42 UTC
From: Chipensaw
Topic: 93 Message: 94

Hello Phillip and welcome,

My personal experience height did not make a huge change. Raising the loop will improve reception on the higher frequencies. I have had mine at 5' which us what Pixel told me was the height they do there testing with. 5' worked well for me, now I have it at about 20'. I did this when I moved to the country. The most improvement I saw was from increasing the distance between the loop and any structure. Get the loop as far from your house and your neighbors as possible. If you would like to experiment with different heights check out my loop and others on sdr-radio.com. Mine is under k7gfh.

Jay

Note: It's OK to print this email. Paper is a biodegradable, renewable, sustainable product made from trees. Growing and harvesting trees provides jobs for millions of Americans. Working forests are good for the environment and provide clean air and water, wildlife habitat and carbon storage. Thanks to improved forest management and outstanding forestry equipment, we have more trees today than we had 100 years ago.

On Dec 2, 2012, at 10:08 AM, "Phillip" <phil-z@...> wrote:

> Greetings,
>
> I just joined the group. I have had my Pro 1B up since last summer. It receives fairly well on 40 and 80 meters with lower signal levels than my vertical but generally less noise. It's still noisier than I would like. I am in a fairly noisy suburban location with decent lot spacing but with some high tension lines running about 200 yards from my house. This weekend I operated on 160 for the first time with the loop. I was surprised that the noise level wasn't a lot lower than the vertical. Even rotating the loop didn't change much.
>
> The loop is mounted 6 ft high, about 4 ft from my wood frame screen porch and about 20 from the walls of my house. The house has aluminum siding and gutters. I might try to experiment with the height, which I could do fairly easily. Moving it further from the house is doable but the rotator cable would need to be extended and run under ground- a more significant project. I also need to stay away from my transmitting antenna.
>
> Is a few feet change in height likely to improve performance? Is 10 ft more likely to be better than 3 ft? I have seen a lot of pictures of Wellbrook loops sitting really close to the ground.
>
> Any suggestions appreciated.
>
> Thanks,
>
> Phil N3ZP
>

>

95. Re: Small changes in height

Yahoo group: pixel_loop
Date: 2012-12-05 20:50:35 UTC
From: doug12455
Topic: 93 Message: 95

Hi Phil As with this loop 10' off the ground is fairly optimal. Going higher starts to upset the pattern of the loop higher up in freq. Have a look at this link. The user "hertzian" performed loop modeling to show how height effects the various bands with a 1 meter loop. Depending on what you use it for, the height may not matter.

http://forums.radioreference.com/receive-antennas-below-30mhz/246590-pixel-pro-1b-loop-antenna.html

I have mine up about 10-12 feet and about 20' from my home which also has aluminum siding. I live in a 160'x60' lot so there aren't many choices for loop placement. It is within 25' of my main dipole which I run 1K watts from at times. The loop shuts off with it's "key" input plus I have the loop going through an antenna switch which not only cuts off the antenna connection during transmit, it also shorts the receiver side to ground to help further attenuate the transmit signal into the receiver. I've had no issues operating it this way using a Perseus SDR as the main receiver.

My dipole also shows greater signal strengths than the loop on the bands it's cut for. That is no surprise. But far more often than not the signal to noise ratio on the loop is superior to far superior than the dipole. I also suffer from noise in my area especially with the local marina's and shore side bars with all their neon lights and whatever else they use electrically. The loop does not eliminate all the noise and depending on the source not at all at times. But more than not I can tune out the local noise or bring it's level down enough to copy a weak sky propagation signal. As the sky wave is obviously rarely effected by the direction of the loop. So all in all it works out well for me.

Another thing you may want to consider is installing an active whip, then use an antenna phaser for both antennas to get a better steerable null and noise reduction. A friend of mine does that with quite a bit of success. I plan to do the same once money and time permit.

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, "Phillip" <phil-z@...> wrote:
>
> Greetings,
>
> I just joined the group. I have had my Pro 1B up since last summer. It receives fairly well on 40 and 80 meters with lower signal levels than my vertical but generally less noise. It's still noisier than I would like. I am in a fairly noisy suburban location with decent lot spacing but with some high tension lines running about 200 yards from my house. This weekend I operated on 160 for the first time with the loop. I was surprised that the noise level wasn't a lot lower than the vertical. Even rotating the loop didn't change much.
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> The loop is mounted 6 ft high, about 4 ft from my wood frame screen porch and about 20 from the walls of my house. The house has aluminum siding and gutters. I might try to

experiment with the height, which I could do fairly easily. Moving it further from the house is doable but the rotator cable would need to be extended and run under ground- a more significant project. I also need to stay away from my transmitting antenna.
>
> Is a few feet change in height likely to improve performance? Is 10 ft more likely to be better than 3 ft? I have seen a lot of pictures of Wellbrook loops sitting really close to the ground.
>
> Any suggestions appreciated.
>
> Thanks,
>
> Phil N3ZP
>

96. Re: Small changes in height

Yahoo group: pixel_loop
Date: 2012-12-05 20:59:46 UTC
From: doug12455
Topic: 93 Message: 96

Phil forgot to add. Use only quality quad shield coax. You probably know that but I just wanted to mention it. Also obviously any issue with any connection will have a big effect on the loop. Last time I moved my loop to a different location, I noticed signal levels down all around different bands. I knew it had nothing to do with the physical location of the loop. Something went "south" when I moved it (this was recent). I changed out my connectors at both ends to no avail. I finally strung a new 100' run of coax and WOW! Everything was back to normal. Now understand, the issues I was seeing may not have been suspected by someone who didn't understand or know their system as well. Someone else might have thought the poor operation was normal. While signals were down it wasn't terrible and someone else may have simply thought this is the way it is and accepted it.

Just a thought and again you may know all this already. Hope anything I posted helps :-)

Brian

--- In pixel_loop@yahoogroups.com, "Phillip" <phil-z@...> wrote:
>
> Greetings,
>
> I just joined the group. I have had my Pro 1B up since last summer. It receives fairly well on 40 and 80 meters with lower signal levels than my vertical but generally less noise. It's still noisier than I would like. I am in a fairly noisy suburban location with decent lot spacing but with some high tension lines running about 200 yards from my house. This weekend I operated on 160 for the first time with the loop. I was surprised that the noise level wasn't a lot lower than the vertical. Even rotating the loop didn't change much.
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> The loop is mounted 6 ft high, about 4 ft from my wood frame screen porch and about 20 from the walls of my house. The house has aluminum siding and gutters. I might try to experiment with the height, which I could do fairly easily. Moving it further from the house is doable but the rotator cable would need to be extended and run under ground- a more significant project. I also need to stay away from my transmitting antenna.
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> Is a few feet change in height likely to improve performance? Is 10 ft more likely to be better than 3 ft? I have seen a lot of pictures of Wellbrook loops sitting really close to the ground.
>
> Any suggestions appreciated.
>
> Thanks,
>
> Phil N3ZP
>

97. RE: [pixel_loop] Re: Small changes in height

Yahoo group: pixel_loop
Date: 2012-12-06 23:49:31 UTC
From: Tom Rohrs
Topic: 93 Message: 97

I also have a small suburban lot and have my loop about 10 feet off the ground and 20 feet from my house (as far as I can get it). I sometimes use it and a DX Engineering active vertical and a MFJ 1026 with good effect. It almost always performs better than the vertical, but not always. Mostly I use the loop by itself and the noise level is almost always the same or lower than my dipole or my vertical, especially on the lower HF bands. On occasion I have loud ignition-like noise in the area on my other antennas and the loop doesn't hear it at all.

-Tom-

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of doug12455
Sent: Wednesday, December 05, 2012 3:00 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Small changes in height

Phil forgot to add. Use only quality quad shield coax. You probably know that but I just wanted to mention it. Also obviously any issue with any connection will have a big effect on the loop. Last time I moved my loop to a different location, I noticed signal levels down all around different bands. I knew it had nothing to do with the physical location of the loop. Something went "south" when I moved it (this was recent). I changed out my connectors at both ends to no avail. I finally strung a new 100' run of coax and WOW! Everything was back to normal. Now understand, the issues I was seeing may not have been suspected by someone who didn't understand or know their system as well. Someone else might have thought the poor operation was normal. While signals were down it wasn't terrible and someone else may have simply thought this is the way it is and accepted it.

Just a thought and again you may know all this already. Hope anything I posted helps :-)

Brian

--- In pixel_loop@yahoogroups.com <mailto:pixel_loop%40yahoogroups.com> , "Phillip" <phil-z@...> wrote:
>
> Greetings,
>
> I just joined the group. I have had my Pro 1B up since last summer. It receives fairly well on 40 and 80 meters with lower signal levels than my vertical but generally less noise. It's still noisier than I would like. I am in a fairly noisy suburban location with decent lot spacing but with some high tension lines running about 200 yards from my house. This weekend I operated on 160 for the first time with the loop. I was surprised that the

noise level wasn't a lot lower than the vertical. Even rotating the loop didn't change much.
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> The loop is mounted 6 ft high, about 4 ft from my wood frame screen porch and about 20 from the walls of my house. The house has aluminum siding and gutters. I might try to experiment with the height, which I could do fairly easily. Moving it further from the house is doable but the rotator cable would need to be extended and run under ground- a more significant project. I also need to stay away from my transmitting antenna.
>
> Is a few feet change in height likely to improve performance? Is 10 ft more likely to be better than 3 ft? I have seen a lot of pictures of Wellbrook loops sitting really close to the ground.
>
> Any suggestions appreciated.
>
> Thanks,
>
> Phil N3ZP
>

98. Re: Small changes in height

Yahoo group: pixel_loop
Date: 2013-02-08 06:44:34 UTC
From: aaronlk
Topic: 93 Message: 98

When my Wellbrook loop was only 2-3 feet off the ground it didn't have much of a null (eg. <10 db). It is doing much better at 8 feet (typically 20-30 db nulls on local AM stations, up to 45 db).

I'd be interested to know if 10-15 feet is better than 8.

I think the Wellbrook company recommends a 7 meter height.

99. Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 07:10:01 UTC
From: doug12455
Topic: 99 Message: 99

Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR

Brian - W8GTX

100. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 07:37:39 UTC
From: Ben
Topic: 99 Message: 100

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Just want to kind of blow the dust out and see if how everyone's loop has been operating.

Same here, Brian. on 24/7, solid as a rock. Rotates each and every day, usually multiple times as I go through my daily listening routine.

Mine's also set up to be portable -- mounted it on a wood trailer, can drag it out into the country where it's RFI-quiet, and have my own personal field day. I built a mobile power supply for it, and fun ensues.

--Ben
AA7AS

101. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 14:01:28 UTC
From: Wm Marvin
Topic: 99 Message: 101

Hi Brian I have used my Pixel since Oct 2012. It's been used daily here in NW Mich. It has been through Blizzards, Ice, heavy rain and also -30F temps. Build is super and doesn't miss a beat. I doubt if I would use a wire antenna again.....I'm spoiled now.

Best DX

Bill KB9IV

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR
>
> Brian - W8GTX
>

102. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 14:14:45 UTC
From: Crownhaven
Topic: 99 Message: 102

I bought one at Dayton last year. It was advertised at the special Dayton price. When I got home, I found out the Dayton price was the retail price. :)))) I mentioned that to them and they threw in some extra coax for me. Mine is up on a small rotator next to the house. It seems to hear very well. In my case, the installation is probably all wrong. They say it should be away from a structure. I am thinking about taking mine off the mast and getting a small tripod, plan being to set it out in the middle of the back yard in the winter months when my wife wouldn't mind and then stowing it in the summer when I wouldn't be using it anyway. Honestly, I am not an experienced 80 meter op, have RFI problems on transmit so I haven't realized the full potential of the antenna and might never. It does do a great job pulling in AM broadcast stations though. :)))))))

Steve, N4JQQ

On 4/28/2013 2:37 AM, Ben wrote:
>
>
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@...> wrote:
> >
> > Just want to kind of blow the dust out and see if how everyone's
> loop has been operating.
>
> Same here, Brian. on 24/7, solid as a rock. Rotates each and every
> day, usually multiple times as I go through my daily listening routine.
>
> Mine's also set up to be portable -- mounted it on a wood trailer, can
> drag it out into the country where it's RFI-quiet, and have my own
> personal field day. I built a mobile power supply for it, and fun ensues.
>
> --Ben
> AA7AS
>
>

103. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 20:11:56 UTC
From: doug12455
Topic: 99 Message: 103

Yep same here. I have a fan dipole (80 - 10)up and it outperforms the loop in signal strength (though loop is surprisingly close) but only on the resonate bands, and only 20-80m. But with that in mind the loop out performs it across all bands on signal/noise ratio. On 100m and below or 15m and above, the loop outperforms the dipole on all levels. I'm in a fairly thick urban environment so that S/N ratio makes all the difference between hearing them and not hearing them.

Mine is mounted about 12' high and in the middle of my backyard.

Brian

--- In pixel_loop@yahoogroups.com, "Wm Marvin" <wmarvin2@...> wrote:
>
> Hi Brian I have used my Pixel since Oct 2012. It's been used daily here in NW Mich. It has been through Blizzards, Ice, heavy rain and also -30F temps. Build is super and doesn't miss a beat. I doubt if I would use a wire antenna again.....I'm spoiled now.
>
> Best DX
>
> Bill KB9IV
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>
>
>
> --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> >
> > Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR
> >
> > Brian - W8GTX
> >
>

104. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 20:15:32 UTC
From: doug12455
Topic: 99 Message: 104

Yes get it away from the house and also other metal structures as far as possible. It only needs to be mounted 5/10' at most as any higher has no advantage and can actually upset the loops pattern on higher bands.

Brian

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
>
> I bought one at Dayton last year. It was advertised at the special
> Dayton price. When I got home, I found out the Dayton price was the
> retail price. :)))) I mentioned that to them and they threw in some
> extra coax for me. Mine is up on a small rotator next to the house. It
> seems to hear very well. In my case, the installation is probably all
> wrong. They say it should be away from a structure. I am thinking
> about taking mine off the mast and getting a small tripod, plan being to
> set it out in the middle of the back yard in the winter months when my
> wife wouldn't mind and then stowing it in the summer when I wouldn't be
> using it anyway. Honestly, I am not an experienced 80 meter op, have
> RFI problems on transmit so I haven't realized the full potential of the
> antenna and might never. It does do a great job pulling in AM broadcast
> stations though. :)))))))
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> Steve, N4JQQ
>
>
> On 4/28/2013 2:37 AM, Ben wrote:
> >
> >
> >
> > --- In pixel_loop@yahoogroups.com
> > <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@> wrote:
> > >
> > > Just want to kind of blow the dust out and see if how everyone's
> > loop has been operating.
> >
> > Same here, Brian. on 24/7, solid as a rock. Rotates each and every
> > day, usually multiple times as I go through my daily listening routine.
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> > Mine's also set up to be portable -- mounted it on a wood trailer, can
> > drag it out into the country where it's RFI-quiet, and have my own
> > personal field day. I built a mobile power supply for it, and fun ensues.
> >
> > --Ben
> > AA7AS
> >

> >
>

105. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 22:00:36 UTC
From: Crownhaven
Topic: 99 Message: 105

Doug, thanks much!

Steve, N4JQQ

On 4/28/2013 3:15 PM, doug12455 wrote:
>
> Yes get it away from the house and also other metal structures as far
> as possible. It only needs to be mounted 5/10' at most as any higher
> has no advantage and can actually upset the loops pattern on higher bands.
>
> Brian
>
> --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>, Crownhaven <crownhaven@...> wrote:
> >
> > I bought one at Dayton last year. It was advertised at the special
> > Dayton price. When I got home, I found out the Dayton price was the
> > retail price. :)))) I mentioned that to them and they threw in some
> > extra coax for me. Mine is up on a small rotator next to the house. It
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> > using it anyway. Honestly, I am not an experienced 80 meter op, have
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> > antenna and might never. It does do a great job pulling in AM broadcast
> > stations though. :)))))))
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> > Steve, N4JQQ
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> >
> > On 4/28/2013 2:37 AM, Ben wrote:
> > >
> > >
> > >
> > > --- In pixel_loop@yahoogroups.com
> <mailto:pixel_loop%40yahoogroups.com>
> > > <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@> wrote:
> > > >
> > > > Just want to kind of blow the dust out and see if how everyone's
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> > > Same here, Brian. on 24/7, solid as a rock. Rotates each and every
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> ensues.
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> > > --Ben
> > > AA7AS
> > >
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> >
>
>

106. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 23:38:38 UTC
From: Crownhaven
Topic: 99 Message: 106

Is it just me or is the u-bolt arrangement that attaches the preamp and
the mast clamps about the most awkward thing you have ever dealt with????

On 4/28/2013 5:00 PM, Crownhaven wrote:
>
> Doug, thanks much!
>
> Steve, N4JQQ
>
>
> On 4/28/2013 3:15 PM, doug12455 wrote:
>>
>> Yes get it away from the house and also other metal structures as far
>> as possible. It only needs to be mounted 5/10' at most as any higher
>> has no advantage and can actually upset the loops pattern on higher
>> bands.
>>
>> Brian
>>
>> --- In pixel_loop@yahoogroups.com
>> <mailto:pixel_loop%40yahoogroups.com>, Crownhaven <crownhaven@...> wrote:
>> >
>> > I bought one at Dayton last year. It was advertised at the special
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>> > extra coax for me. Mine is up on a small rotator next to the house. It
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>> > set it out in the middle of the back yard in the winter months when my
>> > wife wouldn't mind and then stowing it in the summer when I
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>> > using it anyway. Honestly, I am not an experienced 80 meter op, have
>> > RFI problems on transmit so I haven't realized the full potential
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>> > antenna and might never. It does do a great job pulling in AM
>> broadcast
>> > stations though. :)))))))
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>> > Steve, N4JQQ
>> >
>> >
>> > On 4/28/2013 2:37 AM, Ben wrote:
>> > >

>> > >
>> > >
>> > > --- In pixel_loop@yahoogroups.com
>> <mailto:pixel_loop%40yahoogroups.com>
>> > > <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@>
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>> > > Same here, Brian. on 24/7, solid as a rock. Rotates each and every
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>> ensues.
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>> > > --Ben
>> > > AA7AS
>> > >
>> > >
>> >
>>
>
>

107. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-28 23:54:53 UTC
From: Bill & Becky
Topic: 99 Message: 107

Hi Doug & Brian My Pixel is about 7" High mounted 50' from my house and 200+ feet from the neighbors. My biggest problem is High Tension lines 1 Block East. 2 Blocks NE a large Power Substation 1 Block square, and Dual Width High Tension Lines NE-N-NW. With the Pixel my noise floors about -135 dB, S1- 2 on my PMSDR radio from 100KHz-30 MHz.

My main listening is LW-40 Meters. This winter I logged 200 + NDB's.....from Wash & BC to Eastern Newfoundland.....E/W to extreme Northern Hudson Bay to Cayman Isl N-S from UP Michigan. Many frequencies had 4-5 NDBs deep. The nulls are terrific.

When I first used the Pixel in Oct I was greeted with S-9 noise.....I thought it was defective. Sounded like fluorescent light on steroids. I walked outside and the sky was ablaze with Northern Lights. NOTHING will cure mothers natures wrath. But is a treat to use otherwise.

Good DX

Bill KB9IV

----- Original Message -----
From: Crownhaven
To: pixel_loop@yahoogroups.com
Cc: doug12455
Sent: Sunday, April 28, 2013 5:00 PM
Subject: Re: [pixel_loop] Re: Anyone having any issues?

Doug, thanks much!

Steve, N4JQQ

On 4/28/2013 3:15 PM, doug12455 wrote:

Yes get it away from the house and also other metal structures as far as possible. It only needs to be mounted 5/10' at most as any higher has no advantage and can actually upset the loops pattern on higher bands.

Brian

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
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> I bought one at Dayton last year. It was advertised at the special
> Dayton price. When I got home, I found out the Dayton price was the
> retail price. :)))) I mentioned that to them and they threw in some
> extra coax for me. Mine is up on a small rotator next to the house. It
> seems to hear very well. In my case, the installation is probably all
> wrong. They say it should be away from a structure. I am thinking
> about taking mine off the mast and getting a small tripod, plan being to
> set it out in the middle of the back yard in the winter months when my
> wife wouldn't mind and then stowing it in the summer when I wouldn't be

> using it anyway. Honestly, I am not an experienced 80 meter op, have
> RFI problems on transmit so I haven't realized the full potential of the
> antenna and might never. It does do a great job pulling in AM broadcast
> stations though. :)))))))
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> Steve, N4JQQ
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> On 4/28/2013 2:37 AM, Ben wrote:
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> > --- In pixel_loop@yahoogroups.com
> > <mailto:pixel_loop%40yahoogroups.com>, "doug12455" <doug12455@> wrote:
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> > day, usually multiple times as I go through my daily listening routine.
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> > Mine's also set up to be portable -- mounted it on a wood trailer, can
> > drag it out into the country where it's RFI-quiet, and have my own
> > personal field day. I built a mobile power supply for it, and fun ensues.
> >
> > --Ben
> > AA7AS
> >
> >
>

108. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 00:12:52 UTC
From: Crownhaven
Topic: 99 Message: 108

I'm happy to see this forum come alive. Great report Bill.

Steve, N4JQQ

BTW, if you happen to forget and get up on your roof, like I just did to remove your Pixel, the nuts are metric, 10MM I think. It isn't specified in the manual. I'm in the process of moving mine to the back yard away from the house like I should have done to begin with. Thanks all for the great advice.

On 4/28/2013 6:54 PM, Bill & Becky wrote:
>
> Hi Doug & Brian My Pixel is about 7" High mounted 50' from my house
> and 200+ feet from the neighbors. My biggest problem is High Tension
> lines 1 Block East. 2 Blocks NE a large Power Substation 1 Block
> square, and Dual Width High Tension Lines NE-N-NW. With the Pixel my
> noise floors about -135 dB, S1- 2 on my PMSDR radio from 100KHz-30 MHz.
> My main listening is LW-40 Meters. This winter I logged 200 +
> NDB's.....from Wash & BC to Eastern Newfoundland.....E/W to extreme
> Northern Hudson Bay to Cayman Isl N-S from UP Michigan. Many
> frequencies had 4-5 NDBs deep. The nulls are terrific.
> When I first used the Pixel in Oct I was greeted with S-9
> noise.....I thought it was defective. Sounded like fluorescent
> light on steroids. I walked outside and the sky was ablaze with
> Northern Lights. NOTHING will cure mothers natures wrath. But is a
> treat to use otherwise.
> Good DX
> Bill KB9IV
>
> ----- Original Message -----
> *From:* Crownhaven <mailto:crownhaven@...>
> *To:* pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com>
> *Cc:* doug12455 <mailto:doug12455@...>
> *Sent:* Sunday, April 28, 2013 5:00 PM
> *Subject:* Re: [pixel_loop] Re: Anyone having any issues?
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> Doug, thanks much!
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> Steve, N4JQQ
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>> on higher bands.
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>> Brian
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>> --- In pixel_loop@yahoogroups.com
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>> > > --Ben
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>

109. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 00:51:37 UTC
From: jay_hendershott
Topic: 99 Message: 109

Same as the other reports here. Mine runs 24/7 connected to my SDR-IQ which is on the net for others to use. When I started this group I hoped for more discussion but in reality minimal posts are good because it means less issues. It is nice to see some discussions now and then.

It would be cool to post pictures of your antenna mounts and locations in the photos section. I will start tonight once I come in for the evening.

Thanks all,

Jay (K7GFH)

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR
>
> Brian - W8GTX
>

110. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 14:43:26 UTC
From: Bill & Becky
Topic: 99 Message: 110

Hi Doug I talked to a Pixel rep and mentioned the U-Bolt bracket plate spacing or lack of and they are aware of this spacing problem.

Good Dx

Bill KB9IV

----- Original Message -----
From: Crownhaven
To: pixel_loop@yahoogroups.com
Sent: Sunday, April 28, 2013 6:38 PM
Subject: Re: [pixel_loop] Re: Anyone having any issues?

Is it just me or is the u-bolt arrangement that attaches the preamp and the mast clamps about the most awkward thing you have ever dealt with????

On 4/28/2013 5:00 PM, Crownhaven wrote:

Doug, thanks much!

Steve, N4JQQ

On 4/28/2013 3:15 PM, doug12455 wrote:

Yes get it away from the house and also other metal structures as far as possible. It only needs to be mounted 5/10' at most as any higher has no advantage and can actually upset the loops pattern on higher bands.

Brian

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
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> I bought one at Dayton last year. It was advertised at the special
> Dayton price. When I got home, I found out the Dayton price was the
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> stations though. :)))))))
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> On 4/28/2013 2:37 AM, Ben wrote:
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> > --- In pixel_loop@yahoogroups.com
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> > Mine's also set up to be portable -- mounted it on a wood trailer, can
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> >
> > --Ben
> > AA7AS
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> >
>

111. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 17:04:45 UTC
From: crownhaven
Topic: 99 Message: 111

That was Steve, N4JQQ. Thanks though Becky....:))))

It can be dealt with if you're in a comfortable location but it could be improved.

Anyone have recommendations for light tripods that won't break the bank to set one of these up in the back yard?????

Thanks all.
 "Lack of money is the root of all

evil." S.C.

From: Bill & Becky <wmarvin2@...>
To: pixel_loop@yahoogroups.com
Sent: Mon, April 29, 2013 9:43:35 AM
Subject: Re: [pixel_loop] Re: Anyone having any issues?

Hi Doug I talked to a Pixel rep and mentioned the U-Bolt bracket plate spacing or lack of and they are aware of this spacing problem.

Good Dx

Bill KB9IV

----- Original Message -----
>From: Crownhaven
>To: pixel_loop@...m
>Sent: Sunday, April 28, 2013 6:38 PM
>Subject: Re: [pixel_loop] Re: Anyone having any issues?
>
>
>Is it just me or is the u-bolt arrangement that attaches the preamp and the mast
>clamps about the most awkward thing you have ever dealt with????
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>On 4/28/2013 5:00 PM, Crownhaven wrote:
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>>Doug, thanks much!
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>>Steve, N4JQQ
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>>On 4/28/2013 3:15 PM, doug12455 wrote:
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>>>Yes get it away from the house and also other metal structures as far as
>>>possible. It only needs to be mounted 5/10' at most as any higher has no
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>>>> > --Ben
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>>>
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>
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112. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 17:33:33 UTC
From: Jack Smith
Topic: 99 Message: 112

Look for a roof tripod - can be found at Radio Shack - commonly used for TV antennas. They mount on an angled roof normally, but the L bracket at the leg ends can rotate flat. Mount to 4x4 pressure treated wood blocks a few feet long. May need sandbags or spikes to tie to the ground.

There are also "satellite tripods" intended for small satellite dishes in the same price category.

Jack K8ZOA

On 4/29/2013 1:04 PM, crownhaven wrote:
> That was Steve, N4JQQ. Thanks though Becky....:))))
> It can be dealt with if you're in a comfortable location but it could
> be improved.
> Anyone have recommendations for light tripods that won't break the
> bank to set one of these up in the back yard?????
> Thanks all.
> "Lack of money is the root of all
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> *From:* Bill & Becky <wmarvin2@...>
> *To:* pixel_loop@yahoogroups.com
> *Sent:* Mon, April 29, 2013 9:43:35 AM
> *Subject:* Re: [pixel_loop] Re: Anyone having any issues?
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> *From:* Crownhaven <mailto:crownhaven@...>
> *To:* pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com>
> *Sent:* Sunday, April 28, 2013 6:38 PM
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113. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 18:55:50 UTC
From: Aaron Kreider
Topic: 99 Message: 113

If you are putting it on the ground (eg not on a roof) you can use 10 foot galavanized steel 1 1/2 inch pole from Lowes or Home Depot.

I think that going several feet higher than a tripod (eg 8 feet vs 4 feet) might improve the null. Can anyone confirm that?

Aaron

On
On 4/29/2013 1:04 PM, crownhaven wrote:
> That was Steve, N4JQQ. Thanks though Becky....:))))
> It can be dealt with if you're in a comfortable location but it could
> be improved.
> Anyone have recommendations for light tripods that won't break the
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114. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-04-29 23:08:21 UTC
From: doug12455
Topic: 99 Message: 114

I pounded about 6' of a 10' mast into the ground, then cut off the excess. Then used a 10' mast and simply slipped it into the lower mast. This is next to my garage. I then attached an added support against swaying at the garage edge to the mast.

Brian - W8GTX

--- In pixel_loop@yahoogroups.com, crownhaven <crownhaven@...> wrote:
>
> That was Steve, N4JQQ.Â Thanks though Becky....:))))
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> It can be dealt with if you're in a comfortable location but it could be
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> >>>> >
> >>>> >
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115. NØHR installation on chain link fence

Yahoo group: pixel_loop
Date: 2013-04-29 23:51:44 UTC
From: n0hr_pat
Topic: 115 Message: 115

I've uploaded pics of my RF-Pro 1b installation. It was kind of a quick and dirty install - mounted on a length of PVC that was strapped to a chain link fence corner post (which is anchored in concrete). About 40 ft from the house.

The install survived a rather nasty Iowa winter without issue - until a couple weeks ago when someone cut my coax (also cut the coax to the 80m inverted Vee).

Anyway, pics are in the Photos folder:
http://groups.yahoo.com/group/pixel_loop/photos <
http://groups.yahoo.com/group/pixel_loop/photos>

No rotor used here on the antenna. I mostly wanted to compare it to the 80m inverted V (and eventually a 160m V not yet installed). I can't say that I had as noticeable difference here as others have had at other locations in terms of S/N on the loop vs the dipole. Background noise here is probably not as bad as some QTHs.

Rigs used are Afedri SDR and Icom IC-7600.

73
Pat N0HR
http://www.n0hr.com <http://www.n0hr.com >

116. Re: NØHR installation on chain link fence

Yahoo group: pixel_loop
Date: 2013-04-30 14:54:50 UTC
From: doug12455
Topic: 115 Message: 116

Sorry to hear that Pat. Out of pure curiosity, did someone cut it accidentally or maliciously?

Brian

--- In pixel_loop@yahoogroups.com, "n0hr_pat" <n0hr@...> wrote:
>
> I've uploaded pics of my RF-Pro 1b installation. It was kind of a quick
> and dirty install - mounted on a length of PVC that was strapped to a
> chain link fence corner post (which is anchored in concrete). About 40
> ft from the house.
>
> The install survived a rather nasty Iowa winter without issue - until a
> couple weeks ago when someone cut my coax (also cut the coax to the 80m
> inverted Vee).
>
> Anyway, pics are in the Photos folder:
> http://groups.yahoo.com/group/pixel_loop/photos <
> http://groups.yahoo.com/group/pixel_loop/photos>
>
> No rotor used here on the antenna. I mostly wanted to compare it to the
> 80m inverted V (and eventually a 160m V not yet installed). I can't say
> that I had as noticeable difference here as others have had at other
> locations in terms of S/N on the loop vs the dipole. Background noise
> here is probably not as bad as some QTHs.
>
> Rigs used are Afedri SDR and Icom IC-7600.
>
> 73
> Pat N0HR
> http://www.n0hr.com <http://www.n0hr.com >
>

117. Re: [pixel_loop] Re: NØHR installation on chain lin k fence

Yahoo group: pixel_loop
Date: 2013-04-30 15:07:19 UTC
From: Pat Rundall
Topic: 115 Message: 117

Malicious. Very strange as the tower has been there for over 5 years without issue and we generally get along with all of our neighbors. No RFI complaints.

Time for some motion detector security lights and warning signs ("RF causes infertility"?).

Pat

On Tue, Apr 30, 2013 at 9:54 AM, doug12455 <doug12455@...> wrote:

> **
>
>
> Sorry to hear that Pat. Out of pure curiosity, did someone cut it
> accidentally or maliciously?
>
> Brian
>
>
> --- In pixel_loop@yahoogroups.com, "n0hr_pat" <n0hr@...> wrote:
> >
> > I've uploaded pics of my RF-Pro 1b installation. It was kind of a quick
> > and dirty install - mounted on a length of PVC that was strapped to a
> > chain link fence corner post (which is anchored in concrete). About 40
> > ft from the house.
> >
> > The install survived a rather nasty Iowa winter without issue - until a
> > couple weeks ago when someone cut my coax (also cut the coax to the 80m
> > inverted Vee).
> >
> > Anyway, pics are in the Photos folder:
> > http://groups.yahoo.com/group/pixel_loop/photos <
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> >
> > No rotor used here on the antenna. I mostly wanted to compare it to the
> > 80m inverted V (and eventually a 160m V not yet installed). I can't say
> > that I had as noticeable difference here as others have had at other
> > locations in terms of S/N on the loop vs the dipole. Background noise
> > here is probably not as bad as some QTHs.
> >
> > Rigs used are Afedri SDR and Icom IC-7600.
> >
> > 73
> > Pat N0HR
> > http://www.n0hr.com <http://www.n0hr.com >

> >
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>
>

118. Re: NØHR installation on chain link fence

Yahoo group: pixel_loop
Date: 2013-05-01 01:09:28 UTC
From: jay_hendershott
Topic: 115 Message: 118

Thanks for the pictures Pat. The tower install is awesome...oh wait I mean the Pixel install is great!

--- In pixel_loop@yahoogroups.com, Pat Rundall <n0hr@...> wrote:
>
> Malicious. Very strange as the tower has been there for over 5 years
> without issue and we generally get along with all of our neighbors. No RFI
> complaints.
>
> Time for some motion detector security lights and warning signs ("RF causes
> infertility"?).
>
> Pat
>
>
> On Tue, Apr 30, 2013 at 9:54 AM, doug12455 <doug12455@...> wrote:
>
> > **
> >
> >
> > Sorry to hear that Pat. Out of pure curiosity, did someone cut it
> > accidentally or maliciously?
> >
> > Brian
> >
> >
> > --- In pixel_loop@yahoogroups.com, "n0hr_pat" <n0hr@> wrote:
> > >
> > > I've uploaded pics of my RF-Pro 1b installation. It was kind of a quick
> > > and dirty install - mounted on a length of PVC that was strapped to a
> > > chain link fence corner post (which is anchored in concrete). About 40
> > > ft from the house.
> > >
> > > The install survived a rather nasty Iowa winter without issue - until a
> > > couple weeks ago when someone cut my coax (also cut the coax to the 80m
> > > inverted Vee).
> > >
> > > Anyway, pics are in the Photos folder:
> > > http://groups.yahoo.com/group/pixel_loop/photos <
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> > > No rotor used here on the antenna. I mostly wanted to compare it to the
> > > 80m inverted V (and eventually a 160m V not yet installed). I can't say
> > > that I had as noticeable difference here as others have had at other
> > > locations in terms of S/N on the loop vs the dipole. Background noise

> > > here is probably not as bad as some QTHs.
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> > > Rigs used are Afedri SDR and Icom IC-7600.
> > >
> > > 73
> > > Pat N0HR
> > > http://www.n0hr.com <http://www.n0hr.com >
> > >
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> >
> >
>

119. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-01 01:11:04 UTC
From: jay_hendershott
Topic: 99 Message: 119

Posted a few pictures of my install in the photos section under Jay(K7GFH). Please share your installs!

--- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@...> wrote:
>
> Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR
>
> Brian - W8GTX
>

120. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-01 01:58:28 UTC
From: Jack Smith
Topic: 99 Message: 120

Posted a few shots of my experimental loop antenna array - 4 loops with
a common rotor and the measuring receiver setup.

Jack K8ZOA

121. Re: NØHR installation on chain link fence

Yahoo group: pixel_loop
Date: 2013-05-01 05:52:48 UTC
From: doug12455
Topic: 115 Message: 121

LOL....Yeah, I would agree. Destruction of property pure and simple, and DAMN ILLEGAL! Someone has a beef, come out and say it. Just ticks me off to no end when this occurs.

Brian

--- In pixel_loop@yahoogroups.com, Pat Rundall <n0hr@...> wrote:
>
> Malicious. Very strange as the tower has been there for over 5 years
> without issue and we generally get along with all of our neighbors. No RFI
> complaints.
>
> Time for some motion detector security lights and warning signs ("RF causes
> infertility"?).
>
> Pat
>
>
> On Tue, Apr 30, 2013 at 9:54 AM, doug12455 <doug12455@...> wrote:
>
> > **
> >
> >
> > Sorry to hear that Pat. Out of pure curiosity, did someone cut it
> > accidentally or maliciously?
> >
> > Brian
> >
> >
> > --- In pixel_loop@yahoogroups.com, "n0hr_pat" <n0hr@> wrote:
> > >
> > > I've uploaded pics of my RF-Pro 1b installation. It was kind of a quick
> > > and dirty install - mounted on a length of PVC that was strapped to a
> > > chain link fence corner post (which is anchored in concrete). About 40
> > > ft from the house.
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> > > The install survived a rather nasty Iowa winter without issue - until a
> > > couple weeks ago when someone cut my coax (also cut the coax to the 80m
> > > inverted Vee).
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> > > Anyway, pics are in the Photos folder:
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> > >
> > > No rotor used here on the antenna. I mostly wanted to compare it to the
> > > 80m inverted V (and eventually a 160m V not yet installed). I can't say

> > > that I had as noticeable difference here as others have had at other
> > > locations in terms of S/N on the loop vs the dipole. Background noise
> > > here is probably not as bad as some QTHs.
> > >
> > > Rigs used are Afedri SDR and Icom IC-7600.
> > >
> > > 73
> > > Pat N0HR
> > > http://www.n0hr.com <http://www.n0hr.com >
> > >
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> >
>

122. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-01 05:55:27 UTC
From: doug12455
Topic: 99 Message: 122

Jay that is similar to my setup. Do you think that metal garage/pole barn has any effect on the loops pattern?

Brian

--- In pixel_loop@yahoogroups.com, "jay_hendershott" <chipensaw@...> wrote:
>
> Posted a few pictures of my install in the photos section under Jay(K7GFH). Please share your installs!
>
>
> --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> >
> > Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR
> >
> > Brian - W8GTX
> >
>

123. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-01 05:56:56 UTC
From: doug12455
Topic: 99 Message: 123

Jack I've seen these before. Wonder what the 2X and 3X are like :-) Yes I know I know...Can't help but wonder ;-)

Brian

--- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@...> wrote:
>
> Posted a few shots of my experimental loop antenna array - 4 loops with
> a common rotor and the measuring receiver setup.
>
> Jack K8ZOA
>

124. What kind of null do see and S/N ratio?

Yahoo group: pixel_loop
Date: 2013-05-01 06:13:45 UTC
From: doug12455
Topic: 124 Message: 124

In db on the MW BCB. If you haven't, try it during mid day to avoid skywave at the higher freqs. Mine seems to be anywhere from 20-30 db. Seems lower on the higher end of the MW BCB. I've also seen it go slightly higher than 30. Just curios s to what others are seeing. Be aware that metal objects close to the antenna can easily effect this reading.

I'm also wondering how your S/N ratios are especially compared with another antenna. Compared with another antenna, how are your signal strengths also on the various bands.

Sorry if I seem chatty, but I've always wondered what others are seeing/hearing with their loop. Besides, DX season is winding down on the low bands where I spend most of my time.

Brian - W8GTX

125. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-01 12:25:02 UTC
From: Chipensaw
Topic: 99 Message: 125

Hi Doug,

I am sure it does but none that I can tell. It is technically a double whammy the way I have it mounted. Metal building and over 10 feet high. The s/n ratio is great even with high tension lines nearby.

On Apr 30, 2013, at 10:55 PM, "doug12455" <doug12455@...> wrote:

> Jay that is similar to my setup. Do you think that metal garage/pole barn has any effect on the loops pattern?
>
> Brian
>
> --- In pixel_loop@yahoogroups.com, "jay_hendershott" <chipensaw@...> wrote:
> >
> > Posted a few pictures of my install in the photos section under Jay(K7GFH). Please share your installs!
> >
> >
> > --- In pixel_loop@yahoogroups.com, "doug12455" <doug12455@> wrote:
> > >
> > > Just want to kind of blow the dust out and see if how everyone's loop has been operating. Mine has been on constantly since the beginning of March 2012. That's 24/7 and no issues here. She works like day one. Been a real solid piece of equipment. I keep hooked to my Perseus SDR
> > >
> > > Brian - W8GTX
> > >
> >
>
>

126. Re: [pixel_loop] Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-01 19:13:01 UTC
From: Aaron Kreider
Topic: 99 Message: 126

It'd probably be easiest to see the impact on the null. If you have a rotor and aren't getting 20 db on at least several local MW stations, then you've got a problem.

On a Wellbrook 1530 (which seems to act very similar from the reviews), I got an average 20.5 db null on 25 local AM stations. Including a massive 50 db null on one of them. It is probably slightly affected by the thin metal fence nearby too.

I didn't notice any correlation between null depth and signal strength or frequency. Probably because distance is the key factor.

Aaron

On 5/1/2013 8:25 AM, Chipensaw wrote:
> Hi Doug,
>
> I am sure it does but none that I can tell. It is technically a
> double whammy the way I have it mounted. Metal building and over 10
> feet high. The s/n ratio is great even with high tension lines nearby.
>
>
>

127. Re: Anyone having any issues?

Yahoo group: pixel_loop
Date: 2013-05-07 16:03:07 UTC
From: doug12455
Topic: 99 Message: 127

Aaron I may be off on that for other reasons. Meaning I tested this again (finally got a little time) and some stations high up do not show a decrease in null compared to their lower freq stations. Now you may be correct and I've noticed in the past when it was mounted close to my dipole, the pattern seem to be off depending on direction. Simply put there are too many factors that can play into this. But for the most part the antenna meets or exceeds the specs giving by Pixel.

Next on my list when time and money permit is getting an active whip, mounting it on the opposite side of my property. Then using a phaser to experiment with a steerable null. A few others guy I know are doing this with fairly good results.

Brian

--- In pixel_loop@yahoogroups.com, Aaron Kreider <aaron@...> wrote:
>
> It'd probably be easiest to see the impact on the null. If you have a
> rotor and aren't getting 20 db on at least several local MW stations,
> then you've got a problem.
>
> On a Wellbrook 1530 (which seems to act very similar from the reviews),
> I got an average 20.5 db null on 25 local AM stations. Including a
> massive 50 db null on one of them. It is probably slightly affected by
> the thin metal fence nearby too.
>
> I didn't notice any correlation between null depth and signal strength
> or frequency. Probably because distance is the key factor.
>
> Aaron
>
> On 5/1/2013 8:25 AM, Chipensaw wrote:
> > Hi Doug,
> >
> > I am sure it does but none that I can tell. It is technically a
> > double whammy the way I have it mounted. Metal building and over 10
> > feet high. The s/n ratio is great even with high tension lines nearby.
> >
> >
> >
>

128. Great Deal On Tripod and Rotor Question

Yahoo group: pixel_loop
Date: 2013-05-13 22:04:30 UTC
From: gatorman_71
Topic: 128 Message: 128

I had my loop mounted over the house and learned that was a bad idea. Over the weekend went to local RS and asked for the HD tripod. They had one, brand new, $.97. I thought they said $97.00. Folks I'm not kidding. And it IS heavy duty. Apparently it just wasn't moving. Anyway, just what I needed.

I'm curious how many of you are using rotators on your loop, maybe finding you don't need one or have implemented the armstrong method.

Steve, N4JQQ

129. Re: Great Deal On Tripod and Rotor Question

Yahoo group: pixel_loop
Date: 2013-05-13 22:05:51 UTC
From: gatorman_71
Topic: 128 Message: 129

PS, will set this up in the yard away from structures.

--- In pixel_loop@yahoogroups.com, "gatorman_71" <crownhaven@...> wrote:
>
> I had my loop mounted over the house and learned that was a bad idea. Over the weekend went to local RS and asked for the HD tripod. They had one, brand new, $.97. I thought they said $97.00. Folks I'm not kidding. And it IS heavy duty. Apparently it just wasn't moving. Anyway, just what I needed.
>
> I'm curious how many of you are using rotators on your loop, maybe finding you don't need one or have implemented the armstrong method.
>
> Steve, N4JQQ
>

130. Re: [pixel_loop] Great Deal On Tripod and Rotor Question

Yahoo group: pixel_loop
Date: 2013-05-13 22:17:40 UTC
From: Bill & Becky
Topic: 128 Message: 130

Steve I highly recommend a "Eagle Aspen" rotor. I got mine from "Solid Signal" for around $80.....far superior than RS offering's. Uses a single run of RG6. Has 1 degree increments via hand controller and since the loop is bi-directional you only have to rotate it 180 degree's from north. Mine held up well during the winter. It is well made.

Best DX

Bill KB9IV

----- Original Message -----
From: gatorman_71
To: pixel_loop@yahoogroups.com
Sent: Monday, May 13, 2013 5:04 PM
Subject: [pixel_loop] Great Deal On Tripod and Rotor Question

I had my loop mounted over the house and learned that was a bad idea. Over the weekend went to local RS and asked for the HD tripod. They had one, brand new, $.97. I thought they said $97.00. Folks I'm not kidding. And it IS heavy duty. Apparently it just wasn't moving. Anyway, just what I needed.

I'm curious how many of you are using rotators on your loop, maybe finding you don't need one or have implemented the armstrong method.

Steve, N4JQQ

131. Re: Great Deal On Tripod and Rotor Question

Yahoo group: pixel_loop
Date: 2013-05-15 05:22:35 UTC
From: doug12455
Topic: 128 Message: 131

Steve I use a rotor, eliminating offensive noise or stations. Why would I want to get out of my lazy reception chair to strong-arm an antenna around (heh) :-)

Brian

--- In pixel_loop@yahoogroups.com, "gatorman_71" <crownhaven@...> wrote:
>
> I had my loop mounted over the house and learned that was a bad idea. Over the weekend went to local RS and asked for the HD tripod. They had one, brand new, $.97. I thought they said $97.00. Folks I'm not kidding. And it IS heavy duty. Apparently it just wasn't moving. Anyway, just what I needed.
>
> I'm curious how many of you are using rotators on your loop, maybe finding you don't need one or have implemented the armstrong method.
>
> Steve, N4JQQ
>

132. Re: [pixel_loop] Re: Great Deal On Tripod and Rotor Question

Yahoo group: pixel_loop
Date: 2013-05-15 13:16:56 UTC
From: Crownhaven
Topic: 128 Message: 132

Hi Brian. I'm in the process of moving the Alliance to the tripod. Need to get some long cable. Much nicer being able to move the loop around the property to experiment, etc.

Curious if anyone has had any problems with the heat-shrink on the tubing joints? It makes me nervous although I'm not sure it should. I have this desire to tape it and weatherproof it.

Steve, N4JQQ

On 5/15/2013 12:22 AM, doug12455 wrote:
> Steve I use a rotor, eliminating offensive noise or stations. Why would I want to get out of my lazy reception chair to strong-arm an antenna around (heh) :-)
>
> Brian
>
> --- In pixel_loop@yahoogroups.com, "gatorman_71" <crownhaven@...> wrote:
>> I had my loop mounted over the house and learned that was a bad idea. Over the weekend went to local RS and asked for the HD tripod. They had one, brand new, $.97. I thought they said $97.00. Folks I'm not kidding. And it IS heavy duty. Apparently it just wasn't moving. Anyway, just what I needed.
>>
>> I'm curious how many of you are using rotators on your loop, maybe finding you don't need one or have implemented the armstrong method.
>>
>> Steve, N4JQQ
>>
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>
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> ------------------------------------
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> Yahoo! Groups Links
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>

133. Re: Great Deal On Tripod and Rotor Question

Yahoo group: pixel_loop
Date: 2013-05-15 20:56:01 UTC
From: doug12455
Topic: 128 Message: 133

I never had a problem, but I used thin strips of coax/connector sealing tape around mine. Did a nice clean job and it looks factory. The way I see, the extra 10 minutes spent sure can't hurt.

Brian

--- In pixel_loop@yahoogroups.com, Crownhaven <crownhaven@...> wrote:
>
> Hi Brian. I'm in the process of moving the Alliance to the tripod. Need
> to get some long cable. Much nicer being able to move the loop around
> the property to experiment, etc.
>
> Curious if anyone has had any problems with the heat-shrink on the
> tubing joints? It makes me nervous although I'm not sure it should. I
> have this desire to tape it and weatherproof it.
>
> Steve, N4JQQ
>
>
> On 5/15/2013 12:22 AM, doug12455 wrote:
> > Steve I use a rotor, eliminating offensive noise or stations. Why would I want to get out of my lazy reception chair to strong-arm an antenna around (heh) :-)
> >
> > Brian
> >
> > --- In pixel_loop@yahoogroups.com, "gatorman_71" <crownhaven@> wrote:
> >> I had my loop mounted over the house and learned that was a bad idea. Over the weekend went to local RS and asked for the HD tripod. They had one, brand new, $.97. I thought they said $97.00. Folks I'm not kidding. And it IS heavy duty. Apparently it just wasn't moving. Anyway, just what I needed.
> >>
> >> I'm curious how many of you are using rotators on your loop, maybe finding you don't need one or have implemented the armstrong method.
> >>
> >> Steve, N4JQQ
> >>
> >
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> > Yahoo! Groups Links
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134. I'm a believer...

Yahoo group: pixel_loop
Date: 2013-05-27 02:40:22 UTC
From: wb1dgg
Topic: 134 Message: 134

I have had noise problems on 40, 80 and 160 meters. Equally spaced S9 plus carriers every 21 KHZ that slowly move up the band. Made it very difficult to enjoy those bands.

While searching for a solution I checked out everything power supplies, computers, wall warts, etc.. Then I totally cut the power in my home and ran a cord to my closest neighbor. Still had the noise and even tried walking around the neighboorhood with a portable radio. The noise is on both my Flex-5000 and my FT-100D so that eliminated the radio as being a problem.

Saw an ad for the Pixel Loop RF-1B and researched it. Then when they had the Dayton special I pulled the trigger. It arrived this past Thursday but with all the rain we've had today was the first day I had to install it. I put it up on the back of my shed which is about 50' from my house and all neighbors. I mounted it with a rotor that I had in my shed for a few years and it is about 10 feet above ground.

Got everything connected and put the Pixel Loop in the RX1 port. Went to 160 meters and there were the carriers and noise as usual on antenna 1. Switched to RX1 and turned on the Loop and the carriers disappeared while the noise floor also dropped. There was a QSO going on and they were both about S7. Switched back to Antenna1 and the noise was back with the screeching carrier in the passband I heard nobody. Switched back to RX1 and the carriers were gone, noise floor was lower and the QSO was still going on. I was impressed and glad that I opted for the Pixel Loop.

Tuned around 40 and 80 meters with same results. It was a good day but not perfect as I tried to rotate the Loop only to hear clicks. So I guess I'll check the rotor out tomorrow. I had bought a broadcast band filter and ANC-4 in trying to solve this problem so while I thought the loop may solve it I did have my doubts. Still enjoy SWL so this will be a plus.

135. Re: I'm a believer...

Yahoo group: pixel_loop
Date: 2013-05-30 07:35:46 UTC
From: doug12455
Topic: 134 Message: 135

Oh you'll enjoy it. Welcome to the group and the world of "loops" :-)

Brian

--- In pixel_loop@yahoogroups.com, "wb1dgg" <w1dg@...> wrote:
>
> I have had noise problems on 40, 80 and 160 meters. Equally spaced S9 plus carriers every 21 KHZ that slowly move up the band. Made it very difficult to enjoy those bands.
>
> While searching for a solution I checked out everything power supplies, computers, wall warts, etc.. Then I totally cut the power in my home and ran a cord to my closest neighbor. Still had the noise and even tried walking around the neighboorhood with a portable radio. The noise is on both my Flex-5000 and my FT-100D so that eliminated the radio as being a problem.
>
> Saw an ad for the Pixel Loop RF-1B and researched it. Then when they had the Dayton special I pulled the trigger. It arrived this past Thursday but with all the rain we've had today was the first day I had to install it. I put it up on the back of my shed which is about 50' from my house and all neighbors. I mounted it with a rotor that I had in my shed for a few years and it is about 10 feet above ground.
>
> Got everything connected and put the Pixel Loop in the RX1 port. Went to 160 meters and there were the carriers and noise as usual on antenna 1. Switched to RX1 and turned on the Loop and the carriers disappeared while the noise floor also dropped. There was a QSO going on and they were both about S7. Switched back to Antenna1 and the noise was back with the screeching carrier in the passband I heard nobody. Switched back to RX1 and the carriers were gone, noise floor was lower and the QSO was still going on. I was impressed and glad that I opted for the Pixel Loop.
>
> Tuned around 40 and 80 meters with same results. It was a good day but not perfect as I tried to rotate the Loop only to hear clicks. So I guess I'll check the rotor out tomorrow. I had bought a broadcast band filter and ANC-4 in trying to solve this problem so while I thought the loop may solve it I did have my doubts. Still enjoy SWL so this will be a plus.
>

136. New Pixel Loop User - Nulling Issues

Yahoo group: pixel_loop
Date: 2013-07-03 18:05:18 UTC
From: ihmeyers19
Topic: 136 Message: 136

Finally got my Pixel loop yesterday. Set-up was easy, took less than an hr because I had previously dug the hole and foundation where the mast was going. I ended up using a 1 1/2" diameter wood 'dowel' purchased at home depot for a mast. It's mounted approx 8 feet above ground (stationary, not on a rotor)

While signal levels are on par with my vertical I was discouraged by what I call for lack of a better word 'pinpoint' nulls. Fairly deep nulls on pesky Cuban MW stations could be achieved (~ 25 db in some cases) but I found the null extended only a few degrees off axis. In other words, I could get a 25db null on 570 but the null on 550 (where the target is slightly west of the station on 570) would yield a null of only 10db. If I optimized antenna direction to null 550khz I could get a 22db null but then 570 would null by less than 10db.

The antenna is probably NOT optimally situated being located within 13 feet of a screened in patio (mesh with aluminum frame) and 20 feet from an aluminum fence. Now it certainly could be that these two objects are interfering with nulling capabilities but

1) it's not like the antenna won't null at all
2) the objects are close but not right on top of the loop.

Does anyone have any ideas? Right now I pretty much get the same DX from the loop as I get from my vertical so I feel like I blew $500.

Thanks very much.

73 and good DX,
Ian
Lake Worth, Florida

137. Re: [pixel_loop] New Pixel Loop User - Nulling Issues

Yahoo group: pixel_loop
Date: 2013-07-03 19:24:52 UTC
From: Jack Smith
Topic: 136 Message: 137

Ian:

A properly working loop has a sharp null and you will find some measured null plots at my loop review
http://www.cliftonlaboratories.com/Documents/Loop%20vs%20Loop%20Final-Final.pdf

I dug out the raw data for 570 KHz and found that a 29 dB null reduced to 15 dB +/- 8 degrees from the null bearing. So, if the difference in azimuth between 550 and 570 KHz at your location is say 8 or 10 degrees, I would say your loop is working as it should be if you see a 25 dB null reduced to 10 dB.

Remember - loop antennas were developed for direction finding and if you didn't get a narrow null they would not have been used for that purpose.

As far as null depth versus frequency goes, many structures, power lines, etc., act as antennas and re-radiate signals. The higher the frequency the more objects will re-radiate, since their efficiency at re-radiating is proportional to their dimension in terms of wavelengths.

If your loop can null the direct signal 25 dB, then a re-radiating signal that's down 20 dB will limit your ultimate null depth.

In my case, I can't null above 1 MHz or so because of all the ham radio antennas and tower located close to my loop test bed. My tower is probably the worst offending source, but power lines and the like will cause a similar problem in other cases. At 500 KHz, the ham radio antennas and tower are electrically small and don't re-radiate much, but by 1 MHz, the tower is a very efficient top loaded re-radiating structure.

If you are fortunate, the null azimuth and the re-radiating signal azimuth will be the same and the loop will null both. That usually isn't the case, unfortunately.

Jack K8ZOA
Clifton Laboratories

On 7/3/2013 2:05 PM, ihmeyers19 wrote:
>
> Finally got my Pixel loop yesterday. Set-up was easy, took less than
> an hr because I had previously dug the hole and foundation where the
> mast was going. I ended up using a 1 1/2" diameter wood 'dowel'
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> ground (stationary, not on a rotor)
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> nulls on pesky Cuban MW stations could be achieved (~ 25 db in some
> cases) but I found the null extended only a few degrees off axis. In
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> get a 22db null but then 570 would null by less than 10db.
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> feet of a screened in patio (mesh with aluminum frame) and 20 feet
> from an aluminum fence. Now it certainly could be that these two
> objects are interfering with nulling capabilities but
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> 1) it's not like the antenna won't null at all
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> Does anyone have any ideas? Right now I pretty much get the same DX
> from the loop as I get from my vertical so I feel like I blew $500.
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> Thanks very much.
>
> 73 and good DX,
> Ian
> Lake Worth, Florida
>
>

138. Re: New Pixel Loop User - Nulling Issues

Yahoo group: pixel_loop
Date: 2013-07-03 19:44:04 UTC
From: ihmeyers19
Topic: 136 Message: 138

Thanks very much Jack, and thanks to those that answered privately.

I guess I was overly optimistic in thinking that I would be able to use the loop in a fixed position, i.e. that the nulls would be broad enough to drop all of the pesky Cuban MW stations. I once had a home built loop (I bought it didn't build it)that had a wider null pattern, or at least I recall that it had. The last directional antenna I had was a KAZ (don't have the space here) that would null pretty much all of Cuba by 20db+. I am thinking I will probably have to get a rotator. I am not concerned about the cost but that it's another piece of equipment that the HOA here might pick up on. That and it's a pin in the butt to trench all my cables...

Jack, I read you review extensively before deciding to buy the Pixel and I am going to read it again now. I greatly respect your opinion which is why I ordered the Pixel to begin with.

73,
Ian

--- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@...> wrote:
>
> Ian:
>
> A properly working loop has a sharp null and you will find some measured
> null plots at my loop review
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> probably the worst offending source, but power lines and the like will

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> > 73 and good DX,
> > Ian
> > Lake Worth, Florida
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> >
>

139. New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 16:04:21 UTC
From: ihmeyers19
Topic: 136 Message: 139

Got the Pixel mounted on a rotator this weekend and obviously it makes a big difference.

An issue I have still having trouble with though is the coax to the Pixel acting as an antenna. The loop is primarily for LW thru 160m DX since my vertical is better on higher bands. The problem is I am getting MW locals at -80db with the Pixel disconnected running through 130 ft of coax. I tried using a Balun Deisgn noise balun to reduce the signal levels riding the coax to no avail. By way of comparison those same baluns were able to reduce the signals on my vertical coax 15+db to -110db on my vertical (antenna disconnected). Part of the difference, maybe 5db is the difference in signal strength between the antennas. The rest is obviously signal riding along the coax which definitely affects my nulls. I can get about 20-22db null on many stations but I know I should be getting close to 30.

Anyone have any suggestions?

Thanks very much.

73,
Ian Meyers
Lake Worth, Florida

140. Re: [pixel_loop] New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 16:10:44 UTC
From: Phil
Topic: 136 Message: 140

Maybe try driving two 8 foot ground rods, one at the antenna and one
where the coax enters the shack, then connect the coax shield to them???

--
73 de Phil, KO6BB
http://www.qsl.net/ko6bb/ (Web Page)

RADIOS:
Grundigs: S-350 (2006) & G6 (2011).
Icom: R-75 Receiver with 250Hz CW Filter.
Icom: IC-735 Transceiver w 250 HZ CW filter (circa ~1990).
Radio Shack: DX-380 digital portable (circa 1990).
Zenith: Royal-7000 Transoceanic (circa 1969).

Decoder Software: Gray-matter between two Mark 1 earholes.

ACCESSORIES: Homebrew LF-MF Pre-Amp, MFJ-949E HF Tuner
Homebrew 6 Hz Audio Filter.

ANTENNAS: 88' Long Ladder-line fed dipole at 35 feet AGL.
Active Whip at 36 Feet AGL for LF/MW.
4 Foot/side Tuned Rotatable Loop at 15 Feet AGL for LF

Merced, Central California, 37, 18, 37N 120, 30, 6W CM97rh

On 7/8/2013 4:04 PM, ihmeyers19 wrote:
> Got the Pixel mounted on a rotator this weekend and obviously it makes a big difference.
>
> An issue I have still having trouble with though is the coax to the Pixel acting as an antenna. The loop is primarily for LW thru 160m DX since my vertical is better on higher bands. The problem is I am getting MW locals at -80db with the Pixel disconnected running through 130 ft of coax. I tried using a Balun Deisgn noise balun to reduce the signal levels riding the coax to no avail. By way of comparison those same baluns were able to reduce the signals on my vertical coax 15+db to -110db on my vertical (antenna disconnected). Part of the difference, maybe 5db is the difference in signal strength between the antennas. The rest is obviously signal riding along the coax which definitely affects my nulls. I can get about 20-22db null on many stations but I know I should be getting close to 30.
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> Anyone have any suggestions?
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> Thanks very much.
>
> 73,
> Ian Meyers
> Lake Worth, Florida
>

141. Re: New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 16:26:50 UTC
From: ihmeyers19
Topic: 136 Message: 141

Thanks Phil.

I have a ground rod at the antenna but connecting the coax shield to it didn't do any good. I have read about this technique before but to be honest I have never had any success with it on any antenna I erected.

I spoke to Bob, KZ5R from Balun Designs who didn't think a Balun would help. I think he was surprised it made a difference on the vertical. I am not sure why it did.

Here's a link to a really goo article on the subject for those who are unfamiliar with the phenomenon...

www.dxing.info/equipment/coax_leadin_bryant.doc

73,
Ian

--- In pixel_loop@yahoogroups.com, Phil <ko6bb1@...> wrote:
>
> Maybe try driving two 8 foot ground rods, one at the antenna and one
> where the coax enters the shack, then connect the coax shield to them???
>
> --
> 73 de Phil, KO6BB
> http://www.qsl.net/ko6bb/ (Web Page)
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> RADIOS:
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> Radio Shack: DX-380 digital portable (circa 1990).
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> > 73,
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>

142. Re: [pixel_loop] New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 16:43:55 UTC
From: Jack Smith
Topic: 136 Message: 142

If you disconnect the coax feeding the loop from the DC power coupler and connect it directly to your receiver, what is the signal level?

I suspect you may - emphasis on "may" - be seeing some signal leakage from the power line through the 24V transformer and into the DC coupler. It's easy enough to determine if this is the case.

If the signal level observed when you connect the coax directly to your receiver, without using the DC power coupler, is much less than seen when the coax is routed through the coupler, then measure the signal level with the couple in place but with the 24V transformer plug disconnected from the DC coupler box. Also remove any connection you may have to the TX CTRL port on the coupler.

I also assume that when you say the coax is "disconnected" from the loop you have terminated the loop end with a 75 ohm termination or a short circuit.

As a more practical matter, I find it hard to believe that leakage reduces the null depth, as the leakage signal you measure is still 60 dB or perhaps more below the loop signal level (peak) and 25 to 30 dB below the null signal level. The vector sum of two signals that differ by 30 dB is dominated by the stronger signal.

From my experience, degraded null depth is a re-radiation problem from other antennas or power lines or the like.

Jack K8ZOA
www.cliftonlaboratories.com

On 7/8/2013 12:04 PM, ihmeyers19 wrote:
>
> Got the Pixel mounted on a rotator this weekend and obviously it makes
> a big difference.
>
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> definitely affects my nulls. I can get about 20-22db null on many
> stations but I know I should be getting close to 30.

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> Anyone have any suggestions?
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> Thanks very much.
>
> 73,
> Ian Meyers
> Lake Worth, Florida
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>

143. Re: [pixel_loop] New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 19:11:01 UTC
From: Aaron Kreider
Topic: 136 Message: 143

If they are 80 db down, would they really interfere with the depth of
20-30 db nulls?

I've got a shorter length of coax which also has some very low level
local AM signals on it.

Aaron

On 7/8/2013 12:10 PM, Phil wrote:
>
>
> On 7/8/2013 4:04 PM, ihmeyers19 wrote:
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> stations but I know I should be getting close to 30.
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> > Ian Meyers
> >
>
>

144. Re: [pixel_loop] New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 19:42:29 UTC
From: Bill & Becky
Topic: 136 Message: 144

It sounds like a switchable Hi-Pass filter to null the BCB would be useful. I use a high quality LP filter to reject the BCB on Longwave.....makes a huge difference!!

Best DX

Bill KB9IV

145. Re: New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 21:50:51 UTC
From: ihmeyers19
Topic: 136 Message: 145

I am no expert on this. I know what I read and that's about it. If you read the John Bryant article referenced below(which is from a seminal book on low band DXing) it sounds as if it COULD influence nulls.

I can tell you from first hand experience it did make a difference when I had a KAZ erected at a previous location. Getting rid of most of the signal riding on the coax gave me a few db more in nulls of my local pests.

73,
Ian

--- In pixel_loop@yahoogroups.com, Aaron Kreider <aaron@...> wrote:
>
> If they are 80 db down, would they really interfere with the depth of
> 20-30 db nulls?
>
> I've got a shorter length of coax which also has some very low level
> local AM signals on it.
>
> Aaron
>
> On 7/8/2013 12:10 PM, Phil wrote:
> >
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> > On 7/8/2013 4:04 PM, ihmeyers19 wrote:
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> > > Ian Meyers
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146. Re: [pixel_loop] Re: New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 22:04:26 UTC
From: Jack Smith
Topic: 136 Message: 146

That's re-radiation, for which a common mode choke may be of benefit. Signals are picked up on the coax braid and are re-radiated into the loop. Usually not too much of a problem with a loop, particularly if the coax is buried but there may be cases where it could be of importance in which case a common mode choke would be the usual solution.

That's much different than leakage signal into the coax cable combining with the loop signal and thereby distorting the null. That is what the original post referenced.

Keep in mind that the loop - and for that matter any antenna - responds to the vector sum (amplitude and phase) of desired frequency as it arrives by different paths. If the main signal is X dB and the re-radiated signal is -40 dB with respect to X, then the effect of the re-radiated signal on null depth and bearing azimuth will be minimal. If the re-radiated signal is -20 dB with respect to X, then you will have the potential for a major loss of null depth and/or major bearing error.

Jack K8ZOA
www.cliftonlaboratories.com

On 7/8/2013 5:50 PM, ihmeyers19 wrote:
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> <mailto:pixel_loop%40yahoogroups.com>, Aaron Kreider <aaron@...> wrote:
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> > > > Ian Meyers
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147. Re: New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-08 22:57:19 UTC
From: ihmeyers19
Topic: 136 Message: 147

Thanks very much for the explanation Jack. I do have an aluminum fence located within 20 feet of the loop. I am sure that doesn't help. Unfortunately I only had so much freedom on locating the antenna and that spot is furthest away from the house.

73,
Ian

--- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@...> wrote:
>
> That's re-radiation, for which a common mode choke may be of benefit.
> Signals are picked up on the coax braid and are re-radiated into the
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> > > > antennas. The rest is obviously signal riding along the coax which
> > > > definitely affects my nulls. I can get about 20-22db null on many
> > > > stations but I know I should be getting close to 30.
> > > > >
> > > > > Ian Meyers
> > > > >
> > > >
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> >
>

148. Re: New Pixel Loop User - Nulling Issues- Coax as Antenna

Yahoo group: pixel_loop
Date: 2013-07-09 03:38:36 UTC
From: doug12455
Topic: 136 Message: 148

I tried this little test on mine today. If I connect the antenna directly (no amp PS) or go through the PS with it switched off, it made no difference in received signals. But I could only muster up a few signals in the BCB without the amp PS on. WJR being the strongest at 95/dBm down. With the amp on WJR is at 26/dBm. WJR is a 50/Kw flame thrower 8 miles straight line from my local. It is the closest BCB station near my location.

Using a Perseus SDR with 100' quad shield RG6. Loop is 12' above ground and there are several antennas within 20' and a steel garage door within 10'. I can still manage as high as 30+/db null (some stations no more than 20/db), but I'm well aware of the effects of the objects near the antenna. Not much can be done about that and she still out performs any of my wire antennas in sig/noise

Brian

--- In pixel_loop@yahoogroups.com, Jack Smith <Jack.Smith@...> wrote:
>
> If you disconnect the coax feeding the loop from the DC power coupler
> and connect it directly to your receiver, what is the signal level?
>
> I suspect you may - emphasis on "may" - be seeing some signal leakage
> from the power line through the 24V transformer and into the DC
> coupler. It's easy enough to determine if this is the case.
>
> If the signal level observed when you connect the coax directly to your
> receiver, without using the DC power coupler, is much less than seen
> when the coax is routed through the coupler, then measure the signal
> level with the couple in place but with the 24V transformer plug
> disconnected from the DC coupler box. Also remove any connection you may
> have to the TX CTRL port on the coupler.
>
> I also assume that when you say the coax is "disconnected" from the loop
> you have terminated the loop end with a 75 ohm termination or a short
> circuit.
>
> As a more practical matter, I find it hard to believe that leakage
> reduces the null depth, as the leakage signal you measure is still 60 dB
> or perhaps more below the loop signal level (peak) and 25 to 30 dB below
> the null signal level. The vector sum of two signals that differ by 30
> dB is dominated by the stronger signal.
>
> From my experience, degraded null depth is a re-radiation problem from
> other antennas or power lines or the like.
>
> Jack K8ZOA
> www.cliftonlaboratories.com
>

> On 7/8/2013 12:04 PM, ihmeyers19 wrote:
> >
> > Got the Pixel mounted on a rotator this weekend and obviously it makes
> > a big difference.
> >
> > An issue I have still having trouble with though is the coax to the
> > Pixel acting as an antenna. The loop is primarily for LW thru 160m DX
> > since my vertical is better on higher bands. The problem is I am
> > getting MW locals at -80db with the Pixel disconnected running through
> > 130 ft of coax. I tried using a Balun Deisgn noise balun to reduce the
> > signal levels riding the coax to no avail. By way of comparison those
> > same baluns were able to reduce the signals on my vertical coax 15+db
> > to -110db on my vertical (antenna disconnected). Part of the
> > difference, maybe 5db is the difference in signal strength between the
> > antennas. The rest is obviously signal riding along the coax which
> > definitely affects my nulls. I can get about 20-22db null on many
> > stations but I know I should be getting close to 30.
> >
> > Anyone have any suggestions?
> >
> > Thanks very much.
> >
> > 73,
> > Ian Meyers
> > Lake Worth, Florida
> >
> >
>

149. Pixel vs Wellbrook

Yahoo group: pixel_loop
Date: 2013-09-18 08:37:58 UTC
From: g8lyv
Topic: 149 Message: 149

Hi Guys, just joined the group.

I am intrigued about the comparison between the Pixel and the Wellbrook loops, there seems to be quite a divergence of opinion with some reviews giving wildly different results.

I saw the review on the Pixel website and that compares the Wellbrook 1530L with the Pixel Pro-1B with the Pixel being declared the winner. I just wonder whether this is a valid comparison because the 1530L is a loop that is optimised for the AM broadcast band and has a tailored roll off at HF.

Surely the comparison should be between the standard Wellbrook 1530 and the Pixel?

73

Kevin

150. Wtb pixel technologies pr 1B magnatetic loop antenna

Yahoo group: pixel_loop
Date: 2013-09-25 00:54:34 UTC
From: Chris fuller
Topic: 150 Message: 150

Hi everyone, im relatively new to this group but ive been a longtime s/w listener and recently moved and i really dont have any room to setup my apha delta dx ultra plus dipole.ive been looking for alternatives and id like to try out one of these antennas.i will be using it with my collins hf 2050 along with various other boatanchor receivers that i own.so if anyone has one that theyre thinking of selling let me know as ill put it to good use.regards,
chris

151. RE: Pixel vs Wellbrook

Yahoo group: pixel_loop
Date: 2013-09-26 00:05:43 UTC
From: <chipensaw@...>
Topic: 149 Message: 151

Same comparison as Ford vs. Chevy. There are hard facts and there is personal taste. I went with the Pixel obviously because it did not have anymore negative reviews than the Wellbrook and it is made in the U.S.A. Shorter delivery time and no major time differences in case I needed tech support. I do not regret the purchase one bit. They both are good products and they both have there + and -. If you would like to compare for yourself download SDR-Radio and listen remotely on both brands. My antenna and SDR is online for all to use under K7GFH.

73

---In pixel_loop@yahoogroups.com, <pixel_loop@yahoogroups.com> wrote:

Hi Guys, just joined the group.

I am intrigued about the comparison between the Pixel and the Wellbrook loops, there seems to be quite a divergence of opinion with some reviews giving wildly different results.

I saw the review on the Pixel website and that compares the Wellbrook 1530L with the Pixel Pro-1B with the Pixel being declared the winner. I just wonder whether this is a valid comparison because the 1530L is a loop that is optimised for the AM broadcast band and has a tailored roll off at HF.

Surely the comparison should be between the standard Wellbrook 1530 and the Pixel?

73

Kevin

152. RE: RE: Pixel vs Wellbrook

Yahoo group: pixel_loop
Date: 2013-09-30 21:16:01 UTC
From: <ihmeyers19@...>
Topic: 149 Message: 152

I can tell you one advantage, easy of repair if your located in the U.S.

I bought my loop mid June and somehow something went awry in the amp. After a very helpful, thorough diagnostic call with David from Pixel we figured out it was the amp, which will go back tomorrow. In ten days or so the antenna should be as good as new.

I don't know anything firsthand about Wellbrook customer service (though I have heard its very good) but the prospect of sending things to the UK in the event of repair doesn't thrill me.

Just my two cents...

---In pixel_loop@yahoogroups.com, <pixel_loop@yahoogroups.com> wrote:

Same comparison as Ford vs. Chevy. There are hard facts and there is personal taste. I went with the Pixel obviously because it did not have anymore negative reviews than the Wellbrook and it is made in the U.S.A. Shorter delivery time and no major time differences in case I needed tech support. I do not regret the purchase one bit. They both are good products and they both have there + and -. If you would like to compare for yourself download SDR-Radio and listen remotely on both brands. My antenna and SDR is online for all to use under K7GFH.

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I saw the review on the Pixel website and that compares the Wellbrook 1530L with the Pixel Pro-1B with the Pixel being declared the winner. I just wonder whether this is a valid comparison because the 1530L is a loop that is optimised for the AM broadcast band and has a tailored roll off at HF.

Surely the comparison should be between the standard Wellbrook 1530 and the Pixel?

73

Kevin

153. Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-22 03:03:17 UTC
From: <n4lq@...>
Topic: 153 Message: 153

With the Pixel up on a 30 ft. fiberglass pole signal levels are on par with the 130' doublet but dependent on direction. Listening to WWV on 15 mHz, With the loop's null facing Boulder, 1500 files away, signal was weak and distorted. Rotating the loop so it was aligned on Boulder resulted in a strong, clean signal 1 S unit stronger than the doublet. Having a rotor is important.
Getting the loop up 30 feet made a huge improvement. I believe it was working about like my doublet if it were up only 5 feet.
See photo in the photo tab.

Steve N4LQ

154. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-22 04:25:26 UTC
From: Aaron Kreider
Topic: 153 Message: 154

Does it still have the same null depth?

Aaron

On 10/21/2013 11:03 PM, n4lq@... wrote:
>
> With the Pixel up on a 30 ft. fiberglass pole signal levels are on par
> with the 130' doublet but dependent on direction. Listening to WWV on
> 15 mHz, With the loop's null facing Boulder, 1500 files away, signal
> was weak and distorted. Rotating the loop so it was aligned on Boulder
> resulted in a strong, clean signal 1 S unit stronger than the doublet.
> Having a rotor is important.
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> Getting the loop up 30 feet made a huge improvement. I believe it was
> working about like my doublet if it were up only 5 feet.
> See photo in the photo tab.
>
> Steve N4LQ
>

155. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-22 04:47:52 UTC
From: Steve
Topic: 153 Message: 155

Aaron:
Good question. As for WWV at 1500 miles distance, null depth depends on arrival angle. Were the signal arriving at strictly a high angle from above then null depth is not existent. Arriving at a low angle (which it apparently was), null depth was enough to cause severe phase distortion and a slightly reduced carrier. I believe I was nulling out the low angles but not the high. Since both arrivals ended up more equal in amplitude but out of phase distortion resulted. I'm watching this on an SDR pan (NAP3 + LP-PAN + K3). Without a visible means of observation the whole loop thing would be quiet frustrating.
My experience with the loop down low was mostly just much weaker signals. Now it's up over the houses. That has to help. Is there some technical reason for deliberately mounting the loop at low height or is it just a matter of convenience?
BTW: What prompted me to buy the Pixel was QRM from a Samsung Plasma TV next door. The null is quiet deep either with the loop down low or up high. I would think the null amount would be equal either way but the noise from the plasma might be weaker at height therefore less signal to null.
steve N4LQ

On 10/22/2013 12:25 AM, Aaron Kreider wrote:
>
> Does it still have the same null depth?
>
> Aaron
>
> On 10/21/2013 11:03 PM, n4lq@... wrote:
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>> Boulder resulted in a strong, clean signal 1 S unit stronger than the
>> doublet. Having a rotor is important.
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>> Getting the loop up 30 feet made a huge improvement. I believe it was
>> working about like my doublet if it were up only 5 feet.
>> See photo in the photo tab.
>>
>> Steve N4LQ
>
>

156. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-22 21:58:26 UTC
From: Aaron Kreider
Topic: 153 Message: 156

I've heard the null is reduced by increasing the height. Optimal height is around 10 feet. Can you still get 20+ db nulls of local AM stations?

I'll try putting a loop up on my sewer pipe exhaust (30+ feet) sometime. But for my location noise (local RFI) is the most critical factor - even on the higher bands like 15 mhz. So it's all about how far I can get from the power lines which are all over my urban property.

Aaron

On 10/22/2013 12:47 AM, Steve wrote:
>
> Aaron:
> Good question. As for WWV at 1500 miles distance, null depth depends
> on arrival angle. Were the signal arriving at strictly a high angle
> from above then null depth is not existent. Arriving at a low angle
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> up high. I would think the null amount would be equal either way but
> the noise from the plasma might be weaker at height therefore less
> signal to null.
> steve N4LQ
>
>

157. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-22 22:17:18 UTC
From: Steve
Topic: 153 Message: 157

Aaron
I didn't check the null for local AM stations. I have moved the loop again. This time it's 3 feet off the ground and I have the rotor installed. Just checked and have a good 20db null on locals. Got the rotor at Lowes. It's the same one everybody sells with the memory and remote control. The remote doesn't seem to work most of the time. Guess I'll take it back. I like the 3 wire control cable though.
Someone did a nice write up on transmitting loops
http://www.qrpbuilder.com/downloads/loop%20antenna%20110310.pdf
He recommends a height of 3' with six radials each 6 ft long underneath.
I'm not sure if radials matter but it's worth a try. Maybe tomorrow.
Steve N4LQ

On 10/22/2013 5:58 PM, Aaron Kreider wrote:
>
> I've heard the null is reduced by increasing the height. Optimal
> height is around 10 feet. Can you still get 20+ db nulls of local AM
> stations?
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> I'll try putting a loop up on my sewer pipe exhaust (30+ feet)
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> factor - even on the higher bands like 15 mhz. So it's all about how
> far I can get from the power lines which are all over my urban property.
>
> Aaron
>
> On 10/22/2013 12:47 AM, Steve wrote:
>>
>> Aaron:
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>> on arrival angle. Were the signal arriving at strictly a high angle
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>> the noise from the plasma might be weaker at height therefore less
>> signal to null.
>> steve N4LQ
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>>
>
>

158. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-22 22:36:05 UTC
From: Crownhaven
Topic: 153 Message: 158

Good to see some activity from the group. I had my Pixel up on a mast at about 15' with a rotor next to the house. I didn't think that was a good location. I went to radio shack and they sold me one of their antenna tripods for $.97!!!! I'm not kidding. Normally about $50.00. They wanted it out of the store. NIB. So, I'm in the process of buying some longer rotor cable and will place the Pixel about 10' or so off the ground being able to place it out in the middle of my back yard away from structures, etc.

I need to figure out what gauge wire I need for the Alliance rotor first though. About 150'. I have 200' of coax that came with the Pixel that was on stand-by that I will use for the project. Hope to have it in place soon and will report.

Steve, N4JQQ

On 10/22/2013 5:17 PM, Steve wrote:
>
> Aaron
> I didn't check the null for local AM stations. I have moved the loop
> again. This time it's 3 feet off the ground and I have the rotor
> installed. Just checked and have a good 20db null on locals. Got the
> rotor at Lowes. It's the same one everybody sells with the memory and
> remote control. The remote doesn't seem to work most of the time.
> Guess I'll take it back. I like the 3 wire control cable though.
> Someone did a nice write up on transmitting loops
> http://www.qrpbuilder.com/downloads/loop%20antenna%20110310.pdf
> He recommends a height of 3' with six radials each 6 ft long
> underneath. I'm not sure if radials matter but it's worth a try. Maybe
> tomorrow.
> Steve N4LQ
>
> On 10/22/2013 5:58 PM, Aaron Kreider wrote:
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>> I've heard the null is reduced by increasing the height. Optimal
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>>> but the noise from the plasma might be weaker at height therefore
>>> less signal to null.
>>> steve N4LQ
>>>
>>>
>>
>
>

159. RE: Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-25 23:01:17 UTC
From: <ihmeyers19@...>
Topic: 153 Message: 159

Very interesting Steve.

I never tried mounting the loop up really high; given my set-up I don't think I could. I did experiment at different heights, albeit all of them low in an absolute sense.

Increasing the height from 6 feet to 8 feet did absolutely for signal levels and made the antenna less stable with my cheapo rotator. Overall the Pixel produces s/n slightly below my 30 ft active vertical. Obviously I've got directionality on the lower bands with Pixel where I don't with the vertical.

Perhaps I expected too much or maybe it's because it's not mounted high enough or it's too close to a large screened in patio (about 15 feet), but I am not sure I'd buy it again.

I will say thought that Pixel's customer service is A+. When I had a problem with the amplifier they exchanged it at no charge immediately.

73 and good DX!

Ian
Boynton Beach, Florida

---In pixel_loop@yahoogroups.com, <pixel_loop@yahoogroups.com> wrote:

Aaron:
Good question. As for WWV at 1500 miles distance, null depth depends on arrival angle. Were the signal arriving at strictly a high angle from above then null depth is not existent. Arriving at a low angle (which it apparently was), null depth was enough to cause severe phase distortion and a slightly reduced carrier. I believe I was nulling out the low angles but not the high. Since both arrivals ended up more equal in amplitude but out of phase distortion resulted. I'm watching this on an SDR pan (NAP3 + LP-PAN + K3). Without a visible means of observation the whole loop thing would be quiet frustrating.
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steve N4LQ

On 10/22/2013 12:25 AM, Aaron Kreider wrote:

Does it still have the same null depth?

Aaron

On 10/21/2013 11:03 PM, n4lq@... mailto:n4lq@... wrote:

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Getting the loop up 30 feet made a huge improvement. I believe it was working about like my doublet if it were up only 5 feet.
See photo in the photo tab.

Steve N4LQ

160. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-25 23:49:30 UTC
From: Steve
Topic: 153 Message: 160

John
What time will u be here for the trip?
Wm We can meet you somewhere and drive to Ron's place. Any interest?
Steve N4LQ
On 10/25/2013 7:01 PM, ihmeyers19@... wrote:
>
> Very interesting Steve.
>
>
> I never tried mounting the loop up really high; given my set-up I
> don't think I could. I did experiment at different heights, albeit
> all of them low in an absolute sense.
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> Ian
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> Boynton Beach, Florida
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> ---In pixel_loop@yahoogroups.com, <pixel_loop@yahoogroups.com> wrote:
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> On 10/22/2013 12:25 AM, Aaron Kreider wrote:
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>>> See photo in the photo tab.
>>>
>>> Steve N4LQ
>>
>
>

161. Re: [pixel_loop] Up 30 feet HF improvement

Yahoo group: pixel_loop
Date: 2013-10-26 00:40:59 UTC
From: Steve
Topic: 153 Message: 161

Wow what a mess up. Sorry.
Anyway. the loop is now at 10 feet but it's under my doublet which is not good because the doublet is picking up the plasma tv next door and re-radiating it into the loop making it hard to null out. I just keep moving it around looking for the best spot. So far, the best spot is in the front yard out by the street at 3 feet off the ground! XYL says no!

Steve

On 10/25/2013 7:49 PM, Steve wrote:
>
> John
> What time will u be here for the trip?
> Wm We can meet you somewhere and drive to Ron's place. Any interest?
> Steve N4LQ
>
> On 10/25/2013 7:01 PM, ihmeyers19@... wrote:
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>> signals. Now it's up over the houses. That has to help. Is there some
>> technical reason for deliberately mounting the loop at low height or
>> is it just a matter of convenience?
>> BTW: What prompted me to buy the Pixel was QRM from a Samsung Plasma
>> TV next door. The null is quiet deep either with the loop down low or
>> up high. I would think the null amount would be equal either way but
>> the noise from the plasma might be weaker at height therefore less
>> signal to null.
>> steve N4LQ
>>
>> On 10/22/2013 12:25 AM, Aaron Kreider wrote:
>>
>>> Does it still have the same null depth?
>>>
>>> Aaron
>>>
>>> On 10/21/2013 11:03 PM, n4lq@... <mailto:n4lq@...> wrote:
>>>>
>>>> With the Pixel up on a 30 ft. fiberglass pole signal levels are
>>>> on par with the 130' doublet but dependent on direction.
>>>> Listening to WWV on 15 mHz, With the loop's null facing
>>>> Boulder, 1500 files away, signal was weak and distorted.
>>>> Rotating the loop so it was aligned on Boulder resulted in a
>>>> strong, clean signal 1 S unit stronger than the doublet. Having
>>>> a rotor is important.
>>>>
>>>> Getting the loop up 30 feet made a huge improvement. I believe
>>>> it was working about like my doublet if it were up only 5 feet.

>>>> See photo in the photo tab.
>>>>
>>>> Steve N4LQ
>>>
>>
>
>

162. splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 00:45:57 UTC
From: Steve
Topic: 162 Message: 162

What are you guys using for a splitter to feed multiple receivers?
Has anyone tried splitting between the loop and the power injector and using a capacitor to block the DC?
Steve N4LQ

163. RE: [pixel_loop] splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 12:59:28 UTC
From: Bernard MALET
Topic: 162 Message: 163
Attachments: 1 described; binary payloads are missing from this source WARC

Steve,

Hello from Sud Ouest of France Cahors city

I using a very good splitter of Clifton Laboratories of K8ZOA link for
Splitter : <http://www.cliftonlaboratories.com/z10050a_3_db_hybrid.htm>
http://www.cliftonlaboratories.com/z10050a_3_db_hybrid.htm

You are Ham Radio, so why put a capacitor before the power amplifier when
you can normally put a splitter or after the P-92A is the power inserter.

I am a French SWL

Best regards

BM

De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] De la
part de Steve
Envoyé : mardi 29 octobre 2013 01:46
À : pixel_loop@yahoogroups.com
Objet : [pixel_loop] splitter?

What are you guys using for a splitter to feed multiple receivers?
Has anyone tried splitting between the loop and the power injector and
using a capacitor to block the DC?
Steve N4LQ

164. Re: [pixel_loop] splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 13:18:34 UTC
From: Steve
Topic: 162 Message: 164
Attachments: 1 described; binary payloads are missing from this source WARC

The reason for putting the splitter - capacitor between the power
injector and antenna is (In my situation) to reduce the amount of coax
needed to reach receiver #2 and to make routing the cable easier.
Thanks for the info on the clifton splitter.
Steve
On 10/29/2013 8:59 AM, Bernard MALET wrote:
>
> *Steve, *
>
> Hello from Sud Ouest of France Cahors city
>
> I using a very good splitter of Clifton Laboratories of K8ZOA link for
> Splitter : http://www.cliftonlaboratories.com/z10050a_3_db_hybrid.htm
>
> You are Ham Radio, so why put a capacitor before the power amplifier
> when you can normally put a splitter or after the P-92A is the power
> inserter.
>
> I am a French SWL
>
> *Best regards*
>
> *BM*
>
> *De :*pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
> *De la part de* Steve
> *Envoy? :* mardi 29 octobre 2013 01:46
> *? :* pixel_loop@yahoogroups.com
> *Objet :* [pixel_loop] splitter?
>
> What are you guys using for a splitter to feed multiple receivers?
> Has anyone tried splitting between the loop and the power injector and
> using a capacitor to block the DC?
> Steve N4LQ
>
>

165. RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 14:30:09 UTC
From: <phil-z@...>
Topic: 162 Message: 165

Steve,

I use a Mini-Circuits 2-way splitter on the receiver side of the power supply to split between a K-3 and an RX-320 or FLEX-1500. I don't have the model number handy. It's designed for 72 ohms and has BNC connectors. I bought it on E-Bay for less than $20.00. There is supposed to be a 3db loss but I don't notice any signal degradation.

I wouldn't put any kind of homebrew capacitor circuit on the DC side going to the antenna.

I considered using a TV coax antenna switch but haven't tried it.

Phil N3ZP

---In pixel_loop@yahoogroups.com, <n4lq@...> wrote:

What are you guys using for a splitter to feed multiple receivers?
Has anyone tried splitting between the loop and the power injector and
using a capacitor to block the DC?
Steve N4LQ

166. 2.5-25KV BUTTERFLY CAPACITOR KITS VA6POP

Yahoo group: pixel_loop
Date: 2013-10-29 17:55:29 UTC
From: <pop_vasile@...>
Topic: 166 Message: 166

2.5-25KV BUTTERFLY CAPACITOR KITS VA6POP

I can build for u any air variable capacitors kits

https://www.youtube.com/watch? v=thw0RLOh6zM https://www.youtube.com/watch?v=thw0RLOh6zM
www.youtube.com/watch?v=fV-FWF QO6As http://www.youtube.com/watch?v=fV-FWFQO6As

www.youtube.com/watch?v=dmZxgm alP9g http://www.youtube.com/watch?v=dmZxgmalP9g

http://forums.qrz.com/showthre ad.php?351604-Butterfly- capacitor-kits-5-15kv
http://forums.qrz.com/showthread.php?351604-Butterfly-capacitor-kits-5-15kv

http://www.flickr.com/photos/9 3005502@N08/page3/
http://www.flickr.com/photos/93005502@N08/page3/

http://forums.qrz.com/showthre ad.php?378701-2-5-15kv- butterfly-capacitor-kits&p=
http://forums.qrz.com/showthread.php?378701-2-5-15kv-butterfly-capacitor-kits&p=\
2764980#post2764980

I have kits available for :

2.5" OD ROTOR
3" OD ROTOR
4" OD ROTOR
5" OD ROTOR
6" OD ROTOR
8" OD ROTOR
10" OD ROTOR

VA6POP
yo5bzz(at)gmail.com http://gmail.com/

167. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 22:25:01 UTC
From: Steve
Topic: 162 Message: 167

I wonder what difference it would make if one were to just use a "T"
instead of a splitter? SWR doesn't seem to be a concern anyway since
it's 75 ohms to a 50 ohm termination.
steve

On 10/29/2013 10:30 AM, phil-z@... wrote:
>
> Steve,
>
> I use a Mini-Circuits 2-way splitter on the receiver side of the power
> supply to split between a K-3 and an RX-320 or FLEX-1500. I don't have
> the model number handy. It's designed for 72 ohms and has BNC
> connectors. I bought it on E-Bay for less than $20.00. There is
> supposed to be a 3db loss but I don't notice any signal degradation.
>
> I wouldn't put any kind of homebrew capacitor circuit on the DC side
> going to the antenna.
>
> I considered using a TV coax antenna switch but haven't tried it.
>
> Phil N3ZP
>
>
>
> ---In pixel_loop@yahoogroups.com, <n4lq@...> wrote:
>
> What are you guys using for a splitter to feed multiple receivers?
> Has anyone tried splitting between the loop and the power injector and
> using a capacitor to block the DC?
> Steve N4LQ
>

168. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 22:47:12 UTC
From: Larry Ewan
Topic: 162 Message: 168

The signal will drop 3db on each signal. No other effects are normally apparent if there is no DC voltage on the coax. So if you are always listening to signals with a good signal to noise ratio, it’s an option. You also lose the isolation between receivers.

Steve wrote:
I wonder what difference it would make if one were to just use a "T" instead of a splitter? SWR doesn't seem to be a concern anyway since it's 75 ohms to a 50 ohm termination.
steve

169. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 22:52:57 UTC
From: Steve
Topic: 162 Message: 169

Ok...Tell me what the "isolation" does. I understand why they use these couplers on VHF and UHF TVs and for data transmission but what value are they for VLF and HF receiving?
Steve

On 10/29/2013 6:47 PM, Larry Ewan wrote:
>
> The signal will drop 3db on each signal. No other effects are
> normally apparent if there is no DC voltage on the coax. So if you
> are always listening to signals with a good signal to noise ratio,
> it?s an option. You also lose the isolation between receivers.
>
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> instead of a splitter? SWR doesn't seem to be a concern anyway since
> it's 75 ohms to a 50 ohm termination.
> steve
>
>
>

170. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-29 23:08:49 UTC
From: Jack Smith
Topic: 162 Message: 170

Two comments on the use of a "T" connector:

(1) Suppose you have two receivers connected. One is tuned to say 20 MHz and one to 200 KHz. Many receivers will have an input filter that lets the receiver look like 50 ohms in the frequency range being listened to, but there is no guarantee of the impedance on other frequencies. It's possible, for example, that the receiver tuned to 200 KHz has an input circuit that is a short circuit at 20 MHz. Or vice versa. In this case, little signal will be delivered to the other receiver.

(2) Some receivers, particularly Softrocks, but not limited to that device, have strong local oscillator leakage out the antenna port or broadband noise leakage out the antenna port. In this case it is desirable to have receiver to receiver isolation, which is not possible with a T connector.

Whilst you may have perfectly acceptable results with two particular receivers connected with a T, there is no assurance that someone else will, or that the result will be satisfactory on all frequency ranges. A hybrid coupler will go a long way towards preventing both of these problems.

Jack K8ZOA
www.cliftonlaboratories.com

On 10/29/2013 6:52 PM, Steve wrote:
>
> Ok...Tell me what the "isolation" does. I understand why they use
> these couplers on VHF and UHF TVs and for data transmission but what
> value are they for VLF and HF receiving?
> Steve
>
> On 10/29/2013 6:47 PM, Larry Ewan wrote:
>>
>> The signal will drop 3db on each signal. No other effects are
>> normally apparent if there is no DC voltage on the coax. So if you
>> are always listening to signals with a good signal to noise ratio,
>> it?s an option. You also lose the isolation between receivers.
>>
>> *Steve wrote:*
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>> instead of a splitter? SWR doesn't seem to be a concern anyway since
>> it's 75 ohms to a 50 ohm termination.
>> steve
>>
>>

>
>

171. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-30 13:44:09 UTC
From: Larry Ewan
Topic: 162 Message: 171

Isolation keeps the front ends of your receivers being directly connected. See Jack’s previous email for some of the possible consequences. I use and can recommend an ELAD ASA-42 splitter. Neither expensive nor cheap, but works beautifully and costs less than replacing your SDR and you don’t lose the 3db either.

Larry
=====
Ok...Tell me what the "isolation" does. I understand why they use these couplers on VHF and UHF TVs and for data transmission but what value are they for VLF and HF receiving?
Steve

On 10/29/2013 6:47 PM, Larry Ewan wrote:

The signal will drop 3db on each signal. No other effects are normally apparent if there is no DC voltage on the coax. So if you are always listening to signals with a good signal to noise ratio, it’s an option. You also lose the isolation between receivers.

Steve wrote:
I wonder what difference it would make if one were to just use a "T" instead of a splitter? SWR doesn't seem to be a concern anyway since it's 75 ohms to a 50 ohm termination.
steve

172. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-30 14:48:58 UTC
From: Crownhaven
Topic: 162 Message: 172

http://ecom.eladit.com/ELAD-ASA-42-Antenna-Splitter/Switch-4-Antennas-2-Receivers/en

$341.25 not including shipping. Looks like a quality piece of gear.

Steve, N4JQQ

On 10/30/2013 8:44 AM, Larry Ewan wrote:
> ELAD ASA-42 splitter

173. Re: [pixel_loop] RE: splitter?

Yahoo group: pixel_loop
Date: 2013-10-30 15:55:06 UTC
From: Larry Ewan
Topic: 162 Message: 173

Universal Radio has them in the US for $149.98. They are 10Khz to 70Mhz.

Larry

>http://ecom.eladit.com/ELAD-ASA-42-Antenna-Splitter/Switch-4-Antennas-2-Re
>ceivers/en
>
>$341.25 not including shipping. Looks like a quality piece of gear.
>
>Steve, N4JQQ
>
>
>On 10/30/2013 8:44 AM, Larry Ewan wrote:
>> ELAD ASA-42 splitter
>

174. Observations splitters, loops and signals

Yahoo group: pixel_loop
Date: 2013-11-07 15:27:45 UTC
From: Steve
Topic: 174 Message: 174

Here's a few things I've observed about the loop lately.

I ordered the Pixel MB-2 splitter from DX Engineering. I quickly discovered that the MB-2 has a huge loss, greater than 20db, around 10mhz. I notified DXE who simply told me to deal with Pixel about it. Not happy,
I complained to the head guy at DXE who ran some test of his own and verified my findings. He sent his entire stock of MB-2's back to Pixel and sent me a DXE RSC-2 splitter/combiner. I'll be testing that when it arrives.

Meanwhile I've been using a cheap TV splitter (3 way) rated for 5-1000 mHz. I find no gain loss across the spectrum, even down at .5 mhz. Even while carefully watching the band scope I can't see any change when connecting additional receivers.

The DXE splitter just arrived. It is by far better than the Pixel MB-2. I can easily see the 3 or 4 DB drop when I connect another receiver so it is working as advertised however I'm going back to the TV splitter which shows virtually zero loss at 10mhz.

Here is the splitter I'm using:
http://www.3starinc.com/regal_3-way_horizontal_splitter_5-1000_mhz-w-ground.html
I have several TV splitters in the junk box and they all seem about the same.

The DXE splitter cost $55. Works as advertised.
The TV splitters go for around $3. Works better than expected.
The Pixel splitter goes for $20 and is junk.

BTW: TV splitters are weather proof....Sealed. The DXE version is leaky...Needs silicon.

Another discovery:
The gadget shipped with the Pixel loop that looks like a typical TV balun.....Well it isn't. As far as I can tell there is nothing inside the thing. It's just a block designed to convert an F connector to 2 wires. With an older receiver such as your typical Hallicrafters, Hammarlund etc., You still need to ground one of the balanced terminals, connect the black wire of the Pixel gadget to ground and red wire to the hot terminal.
See the instructions.
Lots of guys use old 300 ohm TV baluns for this. I tried that on my SX-28 and the results were very poor, lots of loss. TV baluns don't work well at HF and below. Use the Pixel thing or come up with a better balun.

My Pixel loop has been up on the chimney for a couple of weeks now and I'm using one of the newer rotors that I picked up at Home Depot for about $80. The box had an inch of dust on it so I don't think rotors are big sellers these days!
In fact, the remote control had very dead batteries.

I've had the pixel at 3', 8, 10' above ground and now 30+ feet on the chimney. Really, I need 3 or 4 of these things to measure the difference between mounting positions.
The null for AM BC stations stays the same no matter where I put it. I get a good 25 or more DB drop. At HF such as 80 meters I can see an obvious null on all signals. A rotor is a MUST.

Noise is certainly reduced but so are desired signals. What you want is the difference between noise and signal to increase or at least remain the same.
For typical atmospheric noise, static, QRN or whatever, I've found the SN ratio to be about the same. However very often, signals on the loop are so weak, no matter which direction I aim it, I have to switch back to the old dipole. Ear blasting noise comes back but the signal is way above it.
So don't always expect the loop to outdo your dipole.

I'm able to almost completely null my neighbor's plasma tv with the loop. Of course when doing that I'm also nulling out everything else in that direction. No matter, it still makes for more pleasant listening. The plasma tv sounds like a meat grinder!

Next I'm going to try my multi-tap TV distribution amplifier. It too is rated for a low freq. of 5 mhz. We shall see!

I would love to hear from others about their experiences.

Steve N4LQ

175. RE: Observations splitters, loops and signals

Yahoo group: pixel_loop
Date: 2013-11-07 19:10:00 UTC
From: <ihmeyers19@...>
Topic: 174 Message: 175

I have found the same thing, re signals levels and s/n on my loop. At the end of the day, the Pixel is an obvious winner on BCB but I prefer my DXE amplified vertical on the SW bands, especially above 49m. I don't DX much on the 120m or 90m band so I can't really say which antenna I'd prefer.

I've seen a number of Youtube videos comparing the Pixel (or Wellbrook) to wire antennas with most of them favoring the loop. I guess I must have a pretty good QTH (antenna is 25ft from a large man-made lake) because my vertical almost always wins. I think if I didn't live in an HOA community I'd erect a Shared Apex Loop in lieu of the Pixel but I can't get away with that here. At the end of the day, I think the Pixel performs very well for what it is, but as a small loop it will only bring in so much signal (same goes for the Wellbrook).

JMHO.

73,
Ian
Boynton Beach, Florida USA

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Steve N4LQ

176. RE: Observations splitters, loops and signals

Yahoo group: pixel_loop
Date: 2013-11-07 19:34:44 UTC
From: <doug12455@...>
Topic: 174 Message: 176

I agree with most everyone's assessment here. It mimic's my own for the most part. I do not expect the loop to help when receiving skywave for obvious reasons. Though if a noise source is local, you naturally many times simply null out the RFI source without having any real effect on the desired signal.

In regards to reception, even though I live in a suburb of Detroit, my noise issues are actually few. But enough that the loop has made all the difference between hearing signals at a decent level, and either not hearing them at all or very weak and unlistenable due to noise using the 100' dipole. I find little to no difference most times starting in the 50m band and up, when compared with my dipole. The dipole has a higher average signal, but also the noise follows it. Being most of my reception work is in the MW/LW bands, the loop has in my situation made all the difference. For someone in a low noise environment who does plenty of SW listening/scanning, I agree. A nice wire loop or even dipole would be a better choice.

BTW a couple of guys in the HFU forums have been experimenting with antenna phasers using active loops against active whips and such, with fairly good results getting a steerable null.

Thanks for the info on those splitters. Haven't had the need for one yet, but when I do I'll keep this in mind.

Brian

---In pixel_loop@yahoogroups.com, <ihmeyers19@...> wrote:

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Steve N4LQ

177. Performance

Yahoo group: pixel_loop
Date: 2013-12-29 02:16:40 UTC
From: <K2QPN@...>
Topic: 177 Message: 177

Been trying to use my Pro1b loop for a 160 meter receiving antenna. Results are disappointing so far. In comparison to my 260 ft windom, the loop has about the same noise floor but the signals are much weaker. On 80 meters the loop seems to be a little better. The loop is about 5 feet off the ground and is not rotatable. I oriented it towards Europe but hear nada.

Mainly interested in using the loop on 160. Comments appreciated.

73, Bob k2QPN

178. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 04:02:56 UTC
From: Steve
Topic: 177 Message: 178

Bob:
The loop not is much of a DX grabber. I've found it helpful for nulling out my neighbor's plasma tv and other local noise otherwise the signals are all weaker than my wires and often not copyable. I've had it mounted all over the place. It's not at 30' on my chimney with a rotor. Without the rotor it would be useless.
Steve
On 12/28/2013 9:16 PM, K2QPN@... wrote:
>
> Been trying to use my Pro1b loop for a 160 meter receiving antenna.
> Results are disappointing so far. In comparison to my 260 ft windom,
> the loop has about the same noise floor but the signals are much
> weaker. On 80 meters the loop seems to be a little better. The loop is
> about 5 feet off the ground and is not rotatable. I oriented it
> towards Europe but hear nada.
>
>
> Mainly interested in using the loop on 160. Comments appreciated.
>
> 73, Bob k2QPN
>

179. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 04:31:43 UTC
From: <doug12455@...>
Topic: 177 Message: 179

In comparison to my 130' 80m dipole, reception in the 160m band and down is better with the loop. Granted it's not resonant at those frequencies but still, the loop clearly out performs it. Not even a contact on/in the LW portion of the band. Now on the 80m band, the dipole outperforms it. But also the noise level is higher so at times the loop is the better choice. Same story in the 40m band, stronger signal with a noise floor to match.

Surprisingly the loop matches my 15m dipole, 12m/10m vertical, though at times the vertical may have a slight advantage in signal strength, but also noise at times. So it's a tossup. So far I'm happy with it. Now if you're in a low noise environment, then all bets are off. I'm in a suburban setting and at times suffer noise that only the loop can ignore. It's mounted about 25' from the house and about 10' up on a rotor.

Brian

180. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 04:31:47 UTC
From: Chipensaw
Topic: 177 Message: 180

Just my 2 cents worth. I have been very impressed with my Pixel loop and so are the users of my remote SDR. I get many emails asking what type of antenna I am using, most are impressed with the low noise floor as compared to a wire antenna. Yes the signals are weaker but in most cases the noise floor is lower, plus you get the added ability if deep nulls with this loop. I have to ask, what type of coax are you using? Quad shielding? Have you experimented with different heights? Is the loop mounted near any structures and if so how close.

73

Jay (K7GFH)

Note: It's OK to print this email. Paper is a biodegradable, renewable, sustainable product made from trees. Growing and harvesting trees provides jobs for millions of Americans. Working forests are good for the environment and provide clean air and water, wildlife habitat and carbon storage. Thanks to improved forest management and outstanding forestry equipment, we have more trees today than we had 100 years ago.

> On Dec 28, 2013, at 8:02 PM, Steve <n4lq@...> wrote:
>
> Bob:
> The loop not is much of a DX grabber. I've found it helpful for nulling out my neighbor's plasma tv and other local noise otherwise the signals are all weaker than my wires and often not copyable. I've had it mounted all over the place. It's not at 30' on my chimney with a rotor. Without the rotor it would be useless.
> Steve
>> On 12/28/2013 9:16 PM, K2QPN@... wrote:
>>
>> Been trying to use my Pro1b loop for a 160 meter receiving antenna. Results are disappointing so far. In comparison to my 260 ft windom, the loop has about the same noise floor but the signals are much weaker. On 80 meters the loop seems to be a little better. The loop is about 5 feet off the ground and is not rotatable. I oriented it towards Europe but hear nada.
>>
>>
>> Mainly interested in using the loop on 160. Comments appreciated.
>>
>> 73, Bob k2QPN
>
>

181. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 04:49:28 UTC
From: Steve
Topic: 177 Message: 181

My 130' dipole is fed with ladder line and a tuner so there is no
comparison to another dipole like you describe. The impedance mismatch
on 160m is huge and the swr at a maximum.
I'm observing S/N on the panadapter can easily see any difference
between antennas as I switch between them. The only time I see an actual
improvement in S/N is when the loop is able to null the noise.
Steve
On 12/28/2013 11:31 PM, doug12455@... wrote:
>
> In comparison to my 130' 80m dipole, reception in the 160m band and
> down is better with the loop. Granted it's not resonant at those
> frequencies but still, the loop clearly out performs it. Not even a
> contact on/in the LW portion of the band. Now on the 80m band, the
> dipole outperforms it. But also the noise level is higher so at times
> the loop is the better choice. Same story in the 40m band, stronger
> signal with a noise floor to match.
>
> Surprisingly the loop matches my 15m dipole, 12m/10m vertical, though
> at times the vertical may have a slight advantage in signal strength,
> but also noise at times. So it's a tossup. So far I'm happy with it.
> Now if you're in a low noise environment, then all bets are off. I'm
> in a suburban setting and at times suffer noise that only the loop can
> ignore. It's mounted about 25' from the house and about 10' up on a rotor.
>
> Brian
>
>

182. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 05:38:02 UTC
From: <doug12455@...>
Topic: 177 Message: 182

Steve no doubt and I stated as much. I'm using a Perseus/SDR and can see the s/n difference on my end also. I'm on a small city lot for squeezing in that 80m dipole was not easy. So nothing longer than I currently have and I'm not installing ladder line anytime soon (not enough interest for the results and I hardly ever transmit in any mode on any band any longer as it is). So the loop so far has served me well in my situation with it's small foot print.

-Brian

183. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 16:43:54 UTC
From: Aaron Kreider
Topic: 177 Message: 183

If you are in amedium or high noise environment, you will want to pass the coax through ferrites. I've got five turns of quad-shield coax running through 5 monster ferrites (thinner coax and more turns is a cheaper solution) -- which stops the "common mode" noise picked up by my coax down to around 500 khz. You could use fewer ferrites on 160 meters.

I also have a ferrite on the antenna's power supply and on my radio's power supply.

Also - the recommended mounting height is around 10 feet.

In a low noise environment, I wouldn't be surprised if a longer antenna did much better.

Aaron

184. Re: [pixel_loop] Performance

Yahoo group: pixel_loop
Date: 2013-12-29 19:50:07 UTC
From: Steve
Topic: 177 Message: 184

You nailed it with that last sentence Aaron.
"In a low noise environment, I wouldn't be surprised if a longer antenna did much better."
Without the high noise level the loop is not only unnecessary but inferior. In my case it really helps me null out my neighbor's noise at times and improves copy. I'm using the quad shield coax sent with the loop.
I've tried heights from 6" to 30 feet all over the yard and finally on the chimney. I do get better HF reception with it up high since up there I'm not being blocked by houses etc.
Using ferrites is a good idea however in order for a common mode choke to have sufficient impedance at 500 Khz it would take a truck load.
Winding a few turns of the coax into a loop is useless below about 14mhz too.
The main thing here is NULLS and I'm seeing the same amount of null no matter what the height above ground. I can see no advantage to mounting it low other than to make it easy. 10 feet would probably keep it out of harms way so maybe that is where the 10' idea came from.
steve
On 12/29/2013 11:43 AM, Aaron Kreider wrote:
>
> If you are in amedium or high noise environment, you will want to pass
> the coax through ferrites. I've got five turns of quad-shield coax
> running through 5 monster ferrites (thinner coax and more turns is a
> cheaper solution) -- which stops the "common mode" noise picked up by my
> coax down to around 500 khz. You could use fewer ferrites on 160 meters.
>
> I also have a ferrite on the antenna's power supply and on my radio's
> power supply.
>
> Also - the recommended mounting height is around 10 feet.
>
> In a low noise environment, I wouldn't be surprised if a longer antenna
> did much better.
>
> Aaron
>
>

185. SDR-IQ / Pixel Loop online

Yahoo group: pixel_loop
Date: 2014-01-18 16:51:09 UTC
From: <chipensaw@...>
Topic: 185 Message: 185

If anyone would like to give it a try I have switched over my online SDR from SDR-Radio version 1.5 to version 2.1 this weekend. The receiver location is Boring, Oregon and the loop is up 20 feet. The current beta version for SDR-Radio 2.1 is 1633A which you can down load here: https://www.dropbox.com/s/w7wbdwpr87uynhb/SDR-RADIO-Pro_v2.1b1633.exe

IP address under the remote connection box is:

pacificforestcontractors.com

Username = guest
Password = fortknox

186. Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-28 17:19:51 UTC
From: <w1jcw@...>
Topic: 186 Message: 186

I just got the antenna Friday and had an issue right away.

The cheap plastic washers.

These must be replaced by something effective that works and that will not deteriorate in a matter of months.

I was gentle with securing these but they still made a connection to the pre-amp which as you know will not work correctly.

I used water pipe insulation and moved the pre-amp down a few inches, secured it to the vertical mast and it works now.

At this price there must be a better mouse trap for this installation.

Has anyone else found this to be an issue ?

73-
W1JCW
John

187. RE: Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-28 18:09:28 UTC
From: <malet-bernard@...>
Topic: 186 Message: 187

John,
I have the solution to your problem.
Send me an email I will answer you

Frenche user Pixel Pro 1B

malet-bernard@orange.fr

188. Re: [pixel_loop] Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-28 18:10:04 UTC
From: Steve
Topic: 186 Message: 188

I wasn't too impressed with the washers either. It wouldn't take much to cause the amplifier to short against the mount. I assume if that happened it would degrade the pattern.
Steve n4lq

On 1/28/2014 12:19 PM, w1jcw@... wrote:
>
> I just got the antenna Friday and had an issue right away.
>
>
> The cheap plastic washers.
>
> These must be replaced by something effective that works and that will
> not deteriorate in a matter of months.
>
> I was gentle with securing these but they still made a connection to
> the pre-amp which as you know will not work correctly.
>
> I used water pipe insulation and moved the pre-amp down a few inches,
> secured it
> to the vertical mast and it works now.
>
> At this price there must be a better mouse trap for this installation.
>
> Has anyone else found this to be an issue ?
>
> 73-
> W1JCW
> John
>

189. Re: [pixel_loop] RE: Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-28 18:10:52 UTC
From: Steve
Topic: 186 Message: 189

How about letting us all know your secret om?

On 1/28/2014 1:09 PM, malet-bernard@... wrote:
>
> John,
>
> I have the solution to your problem.
>
> Send me an email I will answer you
>
>
> Frenche user Pixel Pro 1B
>
>
> malet-bernard@...
>
>
>

190. RE: Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-28 18:12:19 UTC
From: <doug12455@...>
Topic: 186 Message: 190

Bernard why not share it with the group? Thanks.

Brian - W8GTX

191. Plastic washers - Pre-amp grounded out

Yahoo group: pixel_loop
Date: 2014-01-28 19:26:51 UTC
From: W1JCW
Topic: 186 Message: 191

It did not received at all, I heard my vertical signals very well as usual but the loop heard 20dbm down.

The loop amplified the noise floor, not the signal.

73-

W1JCW

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of Steve
Sent: Tuesday, January 28, 2014 12:10 PM
To: pixel_loop@yahoogroups.com
Subject: Re: [pixel_loop] Plastic washers

I wasn't too impressed with the washers either. It wouldn't take much to cause the amplifier to short against the mount. I assume if that happened it would degrade the pattern.
Steve n4lq

On 1/28/2014 12:19 PM, w1jcw@... wrote:

I just got the antenna Friday and had an issue right away.

The cheap plastic washers.

These must be replaced by something effective that works and that will not deteriorate in a matter of months.

I was gentle with securing these but they still made a connection to the pre-amp which as you know will not work correctly.

I used water pipe insulation and moved the pre-amp down a few inches, secured it

to the vertical mast and it works now.

At this price there must be a better mouse trap for this installation.

Has anyone else found this to be an issue ?

73-

W1JCW

John

192. Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-28 19:39:18 UTC
From: W1JCW
Topic: 186 Message: 192

I would have taken a pic when it was down and corrected but it was too cold, I can zoom in on a pic later today.

I'll make it permanent when it warms up again here in Texas.

I zip tied pipe insulation to the support mast, then tied the pre-amp to that.

It won't short out now.

I need to take a pic of the washers showing their wear.

I'm really surprised the Pixel guys have not come up with a solution yet.

73-

W1JCW

John

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of Steve
Sent: Tuesday, January 28, 2014 12:11 PM
To: pixel_loop@yahoogroups.com
Subject: Plastic washers

How about letting us all know your secret om?

193. Detailed mechanical fastening

Yahoo group: pixel_loop
Date: 2014-01-28 19:43:22 UTC
From: <malet-bernard@...>
Topic: 193 Message: 193

Hello from France to all Pixelistes.

A little mechanical..

Provide a Plexiglas plate and 1 additional U bolt.
Carefully increase the holes in the bottom of the amp.
Isolate, amplifier, additional U bolt.
In final assembly, check that the amplifier is not grounded.
That's it.

Note: Take advantage of before I ask a world patent
.
7 photos accompany my message (See in pictures)

Very good DX

73 to all Pixelistes

Bernard MALET

194. Re: [pixel_loop] Detailed mechanical fastening

Yahoo group: pixel_loop
Date: 2014-01-28 21:04:14 UTC
From: Bob Betts
Topic: 193 Message: 194

Bernard:
Interesting fix. Thanks for the info and photos.
Where mast isolation is required, we have used the appropriate sized PVC pipe that is slightly larger (ID) than the base mast (OD) and the top metal mast. We slit the PVC lengthwise and clamp it in 2 places, top and bottom. Using gray or black PVC (not white) allows for a good long-term installation. We haven't done this with the Pixel but for some homebrewed antennas at the radio club. Besides ground isolation, our concerns had to do with structural integrity against WX and some very high winds.
I like the plexiglass fix, but thought I'd add my fix for the notebook.

Bob, N1KPR

http://www.bobsamerica.com http://www.youtube.com/n1kpr

Engineering: Where Enigma meets Paradox

From: "malet-bernard@..." <malet-bernard@...>
To: pixel_loop@yahoogroups.com
Sent: Tuesday, January 28, 2014 2:43 PM
Subject: [pixel_loop] Detailed mechanical fastening

Hello from France to all Pixelistes.

A little mechanical..

Provide a Plexiglas plate and 1 additional U bolt.
Carefully increase the holes in the bottom of the amp.
Isolate, amplifier, additional U bolt.
In final assembly, check that the amplifier is not grounded.
That's it.

Note: Take advantage of before I ask a world patent
.
7 photos accompany my message (See in pictures)

Very good DX

73 to all Pixelistes

Bernard MALET

195. The inside build of the loop, issue found

Yahoo group: pixel_loop
Date: 2014-01-28 21:26:48 UTC
From: <doug12455@...>
Topic: 195 Message: 195

I'll post pics of this later when I have time to take them with the explanation. Recently the antenna would quit working. I noticed a few quick "jabs" with the rotor would cause it to pop back. Obviously a connection issue. So I thought maybe the coax? I quickly ran a new length of coax feed yesterday only to find the issue is still present. So I removed the antenna (not easy in this crispy cold weather north of Detroit).

Started carefully taking things apart and noticed the small feed coax from the amp to the loop was loose at the loop connector. I then noticed the nut was loose and would not tighten. The nut was cracked, causing it to spread when you would get it tight beyond finger tight. So I repaired that not thinking any further. Stuck it back up and same issue. Tapping on the 12' of mast would bring it back or cause it to go back out. So back down it came. The loop wire connection on the inside where it attaches to the small circuit board was soldered on by a thread. Probably already broken and just touching the solder pad, hence why it worked when the loop was moved. Doesn't appear corroded, but maybe just a poor job soldering it to begin with. So that is now repaired and I noticed loop performance improved over all, enough to notice. So over all performance was degrading as well as just simply "quitting" with the poor connection. Just an FYI. Reminds me of the issues noted with the previous Pro 1A loop.

Brian

196. Plastic washers

Yahoo group: pixel_loop
Date: 2014-01-29 15:11:34 UTC
From: W1JCW
Topic: 186 Message: 196

Pic posted of the washers and of my temp fix.

The sun was behind the antenna so I could not capture the front of the pre-amp.

You can see the pipe insulation zip tied and then the pre-amp. I'll use duct tape and lay the

pre-amp on top as it is now. No other clamps or hardware and it will hold fine.

I have it up 18' on a 1.5" aluminum pole, hose clamped to my steel fence post.

I may add a rotor but I'm not concerned with a null of stations or noise. I hand rotate it in the

desired direction which is only 45 degrees as there is no front to back or reflector.

I've found it drops the noise level 20 dBm compared to my vertical. I've haven't compared it against

my sloppy 250' dipole.

73-

W1JCW

John

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of W1JCW
Sent: Tuesday, January 28, 2014 1:39 PM
To: pixel_loop@...m
Subject: [pixel_loop] Plastic washers

I would have taken a pic when it was down and corrected but it was too cold, I can zoom in on a pic later today.

I'll make it permanent when it warms up again here in Texas.

I zip tied pipe insulation to the support mast, then tied the pre-amp to that.

It won't short out now.

I need to take a pic of the washers showing their wear.

I'm really surprised the Pixel guys have not come up with a solution yet.

73-

W1JCW

John

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of Steve
Sent: Tuesday, January 28, 2014 12:11 PM
To: pixel_loop@yahoogroups.com
Subject: Plastic washers

How about letting us all know your secret om?

197. Plastic insulating washers

Yahoo group: pixel_loop
Date: 2014-01-29 15:48:16 UTC
From: W1JCW
Topic: 186 Message: 197

Guys -

At Pixel, David tells me that no one has contacted them about this insulating washer issue besides me!

" Looks like you either installed them incorrectly or WAY over tightened them. You’re the first to ever make comment on them"

I recommend that anyone who has had this issue contact them. I made suggestions and provided details.

I don't view this as complaining, I would like them to make this overall product the best it can be if it's going to survive

and make them money.

After all it costs time and money to deal with unhappy customers who purchase a product of this cost who have

simplistic issues such as this.

David said he will send me another set but of the same kind. I indicated that they need to come up with a better part

and to ensure the holes in the pre-amp were not elongated and sloppy.

Attention to detail is everything.

73-

W1JCW

John

198. WARNING, VERY IMPORTANT

Yahoo group: pixel_loop
Date: 2014-02-03 18:19:05 UTC
From: <malet-bernard@...>
Topic: 198 Message: 198

Information at all "PIXELISTES" of the Planet.

A check carefully and twice, all contacts, the central core of the coaxial cables in different connector F.

I found, with very important assistance by the Pixel team and K8ZOA, Jack Smith, all my problems, my very bad receptions came in the final of bad contacts F plug

Yet, I thought, well control all these famous contacts.
In final and safety, I loaded with tin, each central core.

Now my RF PRO 1B Loop works perfectly with NULLS DEEP

My PIXEL RF PRO 1B is mounted on an aluminum mast, manufactured by Spiderbeam, model Heavy Duty 14.5 m (47.54 feet).
This mast was set at a safe height to 9 m (25.5 feet).
For maintenance, the mast can be rotated 90 ° vertically, by a plate, a hinge and a hauling of my production.
The 360 ° orientation of the loop is realized by a rotor, Yaesu 250G.
View my realization as well as details in the "Photos" group folder
The antenna is located at a distance of 17 m (55 feet) from my shack. There is a length of 45.72 m (150 feet) of RG 6/U coaxial cable is mostly buried cable.

A French DX'er very happy

73 Very good DX to all of you

Bernard

199. Re: [pixel_loop] WARNING, VERY IMPORTANT

Yahoo group: pixel_loop
Date: 2014-02-03 18:43:22 UTC
From: Jack Smith
Topic: 198 Message: 199

What Bernard found is that if the center conductor does not extend the correct length beyond the F connector end, intermittent or no-contact results can be found when mated with the loop amplifier and loop body F connectors.

Although there's a defined stripping dimension for the F male connectors, unless the connector is _tightly_ seated against the coax, the center conductor may not extend enough for a reliable contact. I've found F to BNC adapters with marginal and unreliable center conductor extension as well as pre-assembled connectors.

And, of course, the connector must be snugged tight.

It's always a good starting point to suspect connectors. A properly assembled and installed F connector with a high quality connector body such as the Snap-n-seal type, is extremely reliable, but attention to detail is required.

Jack K8ZOA

On 2/3/2014 1:19 PM, malet-bernard@... wrote:
>
> /Information at all "PIXELISTES" of the Planet./
>
> //
>
> /A check carefully and twice, all contacts, the central core of the
> coaxial cables in different connector F./
>
> //
>
> /I found, with very important assistance by the Pixel team and K8ZOA,
> Jack Smith, all my problems, my very bad receptions came in the final
> of bad contacts F plug /
>
> //
>
> /Yet, I thought, well control all these famous contacts. /
>
> /In final and safety, I loaded with tin, each central core. /
>
> //
>
> /Now my RF PRO 1B Loop works perfectly with NULLS DEEP /
>
> //

>
> /My PIXEL RF PRO 1B is mounted on an aluminum mast, manufactured by
> Spiderbeam, model Heavy Duty 14.5 m (47.54 feet). /
>
> /This mast was set at a safe height to 9 m (25.5 feet). /
>
> /For maintenance, the mast can be rotated 90 ° vertically, by a plate,
> a hinge and a hauling of my production. /
>
> /The 360 ° orientation of the loop is realized by a rotor, Yaesu 250G. /
>
> /View my realization as well as details in the "Photos" group folder /
>
> /The antenna is located at a distance of 17 m (55 feet) from my shack.
> There is a length of 45.72 m (150 feet) of RG 6/U coaxial cable is
> mostly buried cable./
>
> //
>
> /A French DX'er very happy /
>
> //
>
> /73 Very good DX to all of you /
>
> //
>
> */Bernard/*
>
>

200. RE: WARNING, VERY IMPORTANT

Yahoo group: pixel_loop
Date: 2014-02-03 18:43:55 UTC
From: <doug12455@...>
Topic: 198 Message: 200

I agree. As I posted the other day, I noticed over all performance dropped in my loop over the last few months. When I removed it, I found the F connector nut (a very thin nut) was loose at the loop itself. The nut split on one side not allowing it to stay tight. This must have occurred sometime back as there was a small amount of corrosion on the outside of the area where the nut tightens down on. So the shield connection was there, but poor. I also found one of the loop wire connections at the base (behind the base cover cap) was poor and only making a contact of sorts. Meaning it was broken. This was on the small circuit board within the loop. There was no corrosion on the inside, I can only surmise this was a poor solder job or connection to begin with. The loose F connector is hard soldered directly to the board.

So I repaired these two issues. I used a thicker larger nut for the F connector. I also had to dremel out the mounting bracket hole for the F connector as the new nut was too large for the hole. So after repair the loop is back to what I remember with the deep nulls. BTW I haven't performed any prior repairs nor ever tested the torque on that F connector nut. Also I've had no issues with the mounting plastic isolators. The ones supplied have worked fine.

Brian

201. Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2014-02-03 21:07:30 UTC
From: <dstremme@...>
Topic: 201 Message: 201

Hello one and all
NEW Member here
Just started working at Pixel Technologies
http://www.pixelsatradio.com

always looking for product feedback, suggestions, etc.
I'm learning the product as I go - willing to provide what assistance I can
and learn from the users what works, what would make it better etc.

Am slowly reading my way thru the previous posts
We're considering GLUING the Nylon Washers to the AMP Box's to help with the alignment failure issues.

Thx in advance
David
KA0IJV

202. Re: [pixel_loop] Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2014-02-03 22:04:27 UTC
From: Crownhaven
Topic: 201 Message: 202

Welcome to the group.....

Steve, N4JQQ

On 2/3/2014 3:07 PM, dstremme@... wrote:
>
> Hello one and all
> NEW Member here
> Just started working at Pixel Technologies
> http://www.pixelsatradio.com
>
> always looking for product feedback, suggestions, etc.
> I'm learning the product as I go - willing to provide what assistance
> I can
> and learn from the users what works, what would make it better etc.
>
>
> Am slowly reading my way thru the previous posts
>
> We're considering GLUING the Nylon Washers to the AMP Box's to help
> with the alignment failure issues.
>
>
> Thx in advance
> David
> KA0IJV
>
>

203. RE: [pixel_loop] Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2014-02-03 22:07:19 UTC
From: Simon Brown
Topic: 201 Message: 203

David,

I would like to know about the 24 VAC power supply. What is the acceptable range of input voltage – I ask as I'm in Switzerland and use the 110V PSU via a 240 / 110 adapter and this isn't ideal.

Simon Brown (G4ELI/HB9DRV)
http://v2.sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of dstremme@...
Sent: 03 February 2014 22:08
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Pixel RF-PRO-1B

Hello one and all
NEW Member here
Just started working at Pixel Technologies
http://www.pixelsatradio.com

always looking for product feedback, suggestions, etc.
I'm learning the product as I go - willing to provide what assistance I can
and learn from the users what works, what would make it better etc.

Am slowly reading my way thru the previous posts

We're considering GLUING the Nylon Washers to the AMP Box's to help with the alignment failure issues.

Thx in advance
David
KA0IJV

204. RE: Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2014-02-03 22:28:14 UTC
From: <doug12455@...>
Topic: 201 Message: 204

Hello David. Welcome to the group.

Brian -W8GTX

205. Re: [pixel_loop] RE: Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2014-02-03 22:40:19 UTC
From: tomdoubts doubting
Topic: 201 Message: 205

Simon:

· CK
for 19-20 volts on end of feed line from Power Supply (at antenna end)
we can sell you the 240VAC wall wart if necessary

On Monday, February 3, 2014 3:28 PM, "doug12455@..." <doug12455@yahoo.com> wrote:

Hello David. Welcome to the group.

Brian -W8GTX

206. RE: [pixel_loop] RE: Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2014-02-03 22:57:02 UTC
From: Simon Brown
Topic: 201 Message: 206

Hi,

Thanks – 19V is OK.

Simon Brown (G4ELI/HB9DRV)
http://v2.sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com] On Behalf Of tomdoubts doubting
Sent: 03 February 2014 23:40
To: pixel_loop@yahoogroups.com
Subject: Re: [pixel_loop] RE: Pixel RF-PRO-1B

Simon:

· CK for 19-20 volts on end of feed line from Power Supply (at antenna end)

we can sell you the 240VAC wall wart if necessary

On Monday, February 3, 2014 3:28 PM, "doug12455@yahoo.com" <doug12455@...> wrote:

Hello David. Welcome to the group.

Brian -W8GTX

207. Pixel RF-PRO-1B Key Input Use With KX3

Yahoo group: pixel_loop
Date: 2014-02-27 17:38:44 UTC
From: <rs001a@...>
Topic: 207 Message: 207

What is the suggested configuration for a Pixel RF-PRO-1B with a 2nd transmit antenna? I presume it is better to use an auto antenna switch such as the MFH-1708, rather than simply feeding both antennas (the Pixel does have an internal relay to inhibit RF). Does anyone have experience in this configuration with a KX3? I will be only running 10W with the transmit antenna approximately 10 ft from the Pixel antenna. Looking for advice.

Thanks, Ron

208. Re: [pixel_loop] Pixel RF-PRO-1B Key Input Use With KX3

Yahoo group: pixel_loop
Date: 2014-02-27 18:16:06 UTC
From: Bob Betts
Topic: 207 Message: 208

Hi Ron:
I pretty sure you will need to use the internal switch on the Pixel pramp. Using the MFJ will protect the feedline to your rig, but the Pixel preamp will still be on, and exposed to your transmitted RF energy. 10 watts is only 10 dB down (20 dBv) from 100 watts, so there's a chance you could do some damage to the input devices on the Pixel.

Bob, N1KPR

http://www.bobsamerica.com http://www.youtube.com/n1kpr

Engineering: Where Enigma meets Paradox

From: "rs001a@..." <rs001a@...>
To: pixel_loop@yahoogroups.com
Sent: Thursday, February 27, 2014 12:38 PM
Subject: [pixel_loop] Pixel RF-PRO-1B Key Input Use With KX3

What is the suggested configuration for a Pixel RF-PRO-1B with a 2nd transmit antenna? I presume it is better to use an auto antenna switch such as the MFH-1708, rather than simply feeding both antennas (the Pixel does have an internal relay to inhibit RF). Does anyone have experience in this configuration with a KX3? I will be only running 10W with the transmit antenna approximately 10 ft from the Pixel antenna. Looking for advice.

Thanks, Ron

209. Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-04-02 00:33:46 UTC
From: <ihmeyers19@...>
Topic: 209 Message: 209

Need to sell the Pro 1B I bought last year because I'm relocating. Don't want to ship it as I don't have the box (plus it's a pain in the ass due to size). Paid close to $500 with shipping, first $250 gets it.

Local pickup in central Palm Beach County, Florida. Drop me an e-mail if interested. Still hooked up so I can demonstrate it if you want.

73,
Ian
ihmeyers19@yahoo.com

210. Re: [pixel_loop] Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-04-02 13:21:27 UTC
From: tomdoubts doubting
Topic: 209 Message: 210

WE CAN SELL YOU A BOX AND PACKING MATERIALS FOR $50 IF YOU WANT TO KEEP IT.

DAVID 303 567 3555
david@ pixelsatradio.com
On Tuesday, April 1, 2014 6:33 PM, "ihmeyers19@..." <ihmeyers19@...> wrote:

Need to sell the Pro 1B I bought last year because I'm relocating. Don't want to ship it as I don't have the box (plus it's a pain in the ass due to size). Paid close to $500 with shipping, first $250 gets it.

Local pickup in central Palm Beach County, Florida. Drop me an e-mail if interested. Still hooked up so I can demonstrate it if you want.

73,
Ian
ihmeyers19@...

211. Visalia CA HamVention

Yahoo group: pixel_loop
Date: 2014-04-03 13:35:32 UTC
From: tomdoubts doubting
Topic: 211 Message: 211

Hi:
Be sure and stop by our booth in Visalia to see a demonstration of our highly regarded RF PRO-1B shielded magnetic loop antenna. We have a fantastic special price for this show.
Also please checkout out our rave reviews for this antenna:
http://www.eham.net/reviews/detail/9441

212. Re: Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-04-05 03:54:25 UTC
From: <ihmeyers19@...>
Topic: 209 Message: 212

Thanks David. I might just do that. I love the antenna and would like to hold on to it but I'm just not sure the new HOA will let me install it.

Two more years of living here (until my son goes off to college) then a place with some land so I can erect all the antennas I want.

73,
Ian

213. Re: Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-04-05 05:39:06 UTC
From: Chris fuller
Topic: 209 Message: 213

Ill take it and pay for the box plus shipping.email me if your willing to do this.
chris

214. Re: [pixel_loop] Re: Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-04-07 14:39:10 UTC
From: tomdoubts doubting
Topic: 209 Message: 214
Attachments: 1 described; binary payloads are missing from this source WARC

don't remember if I sent you one HOA's customers solution or not
so here it is again

On Friday, April 4, 2014 11:39 PM, Chris fuller <cfuller1@gmail.com> wrote:

Ill take it and pay for the box plus shipping.email me if your willing to do this.
chris

215. Re: Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-08-10 15:18:45 UTC
From: edina.planner@...
Topic: 209 Message: 215

Is this unit sold, if not, I'll take it.

Bob
W0TLX

216. Re: Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-08-10 15:26:26 UTC
From: Chris fuller
Topic: 209 Message: 216

Yes its sold. I was the buyer.

217. Re: [pixel_loop] Re: Moving - Pro 1B for Sale

Yahoo group: pixel_loop
Date: 2014-08-10 15:29:15 UTC
From: Bob Severson
Topic: 209 Message: 217

Thanks, Chris. Good luck with the unit. I'm very interested in getting one to reduce my overall noise floor.

Bob

From: Chris fuller cfuller1@gmail.com [pixel_loop]
Sent: Sunday, August 10, 2014 3:26 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Moving - Pro 1B for Sale

Yes its sold. I was the buyer.

218. Problem with preamp or supply?

Yahoo group: pixel_loop
Date: 2014-08-20 03:59:30 UTC
From: chipensaw@...
Topic: 218 Message: 218

Hello Group,Hope all is well with all of you. I am in need of some help resolving an issue with my Pixel loop preamp or power supply, not sure which is causing the issue.

With the power pack plugged into 110v, power supply switch turned on and the preamp disconnected from the coax feed I get a solid green light on the power supply and 19.52 volts output.

When I plug the output of the power supply into the output port of the preamp the solid green light on the power supply will stay lit for approximately 15 seconds then it will go dim. This will continue until I unplug the preamp from the power supply and then plug it back in. Again another 15 seconds of solid green then dim.

With the preamp plugged into the power supply I am only getting 14 volts to the preamp measured at the preamp output connector, cover on the preamp removed. 15 seconds later the voltage will drop off to roughly 2.5 volts then .9 volts which correlates with the green power supply light going dim.

I am wondering if anyone has some further troubleshooting steps I can take to determine if my problem is with the power supply having a faulty component causing it to not be able to maintain voltage when loaded or is there an issue with the preamp bringing the power supply to its knees. I will say again that the powersupply is showing 19.52 volts with no load from the preamp but only 14 volts when connected to the preamp then after 15 seconds drops to almost 0 volts.

Sorry for the long post, hoping to solve the issue without sending everything back to Pixel for repair.

Thanks in advance!

Jay

219. Re: [pixel_loop] Problem with preamp or supply?

Yahoo group: pixel_loop
Date: 2014-08-20 14:23:23 UTC
From: david stremme
Topic: 218 Message: 219

Jay:

Saw your message here - just sent you reply from "PIXEL" give me a call, we'll get you up and running.

Thanks
David
Pixel

On Tue, 8/19/14, chipensaw@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

Subject: [pixel_loop] Problem with preamp or supply?
To: pixel_loop@yahoogroups.com
Date: Tuesday, August 19, 2014, 9:59 PM

Hello Group,Hope all is well with all of you. I am in need of some help resolving an issue with my Pixel loop preamp or power supply, not sure which is causing the issue.

With the power pack plugged into 110v, power supply switch turned on and the preamp disconnected from the coax feed I get a solid green light on the power supply and 19.52 volts output.

When I plug the output of the power supply into the output port of the preamp the solid green light on the power supply will stay lit for approximately 15 seconds then it will go dim. This will continue until I unplug the preamp from the power supply and then plug it back in. Again another 15 seconds of solid green then dim.

With the preamp plugged into the power supply I am only getting 14 volts to the preamp measured at the preamp output connector, cover on the preamp removed. 15 seconds later the voltage will drop off to roughly 2.5 volts then .9 volts which correlates with the green power supply light going dim.

I am wondering if anyone has some further troubleshooting steps I can take to determine if my problem is with the power supply having a faulty component causing it to not be able to maintain voltage when loaded or is there an issue with the preamp bringing the power supply to its knees. I will say again that the

powersupply is showing 19.52 volts with no load from the
preamp but only 14 volts when connected to the preamp then
after 15 seconds drops to almost 0 volts.

Sorry for the long post,
hoping to solve the issue without sending everything back to
Pixel for repair.

Thanks in
advance!

Jay

220. Pixel Antenna Question

Yahoo group: pixel_loop
Date: 2014-08-25 00:54:24 UTC
From: esptwo@...
Topic: 220 Message: 220

Dear Pixel:
I see you folks have renamed/expanded/been bought --whatever. Congratulations, yes?

I'll be moving to Nashville, TN in a year or so and was preparing/deciding whether to buy a Pro RF-1B to supplement my Pro RF-1A. I have three active radios (Icom R-75, SDR-IQ, and Afedri SDR, plus a FiFi SDR and a FunCube Dongle Pro unused) and thought a second antenna could be useful.

The questions of course:

1. Is there any point in thinking about using them as a pair, or would I be better off using them independently?

2. Is it possible to "upgrade" a Pro-1A to a Pro-1B? If yes, the cost is?

Thanks,

Ed

221. Re: [pixel_loop] Pixel Antenna Question

Yahoo group: pixel_loop
Date: 2014-08-25 13:44:14 UTC
From: david stremme
Topic: 220 Message: 221

Ed:
Just a RE-NAMING - still the same folks here for the most part.

No "Upgrades" as you put it for the PRO-1A - The NEW Rf-PRO-1B (Loop, Pre-Amp, Power Inserter, mounting components etc) will be $500 + S/H (usually under $25 depending on location)

You could experiment with both (and let us know what configurations you tried and results). We've not done any real SYNCing up of antennas used together - maybe some info on the http://www.eham.net/ forums you could ask and find out results if any.

Or you could use them separately 1-per radio and contrast/compare with multiple settings N/S vs E/W or other patterns.

If I can help drop a note or call...

If you want to purchase I can tae C-Card orders on the Phone (right now a 2-3 week backlog in production)

David Stremme
KA0IJV
303 526 1965 office
720 457 3214 ext 103 direct
http://inlogisinc.com
http://pixel-antennas.com/

On Sun, 8/24/14, esptwo@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

Subject: [pixel_loop] Pixel Antenna Question
To: pixel_loop@yahoogroups.com
Date: Sunday, August 24, 2014, 6:54 PM

Dear
Pixel:I see
you folks have renamed/expanded/been bought --whatever.
Congratulations, yes?

I'll be moving to Nashville,
TN in a year or so and was preparing/deciding whether to buy
a Pro RF-1B to supplement my Pro RF-1A. I have three active
radios (Icom R-75, SDR-IQ, and Afedri SDR, plus a FiFi SDR
and a FunCube Dongle Pro unused) and thought a second
antenna could be useful.

The questions of course:

1. Is there any point in thinking about using them as a pair, or would I be better off using them independently?

2. Is it possible to "upgrade" a Pro-1A to a Pro-1B? If yes, the cost is?

Thanks,

Ed

222. Pro-1B for sale

Yahoo group: pixel_loop
Date: 2014-09-23 16:48:02 UTC
From: K2QPN@...
Topic: 222 Message: 222

RF Pro-1B Magnetic Loop Receiving Antenna $250

with 30db Preamp, power inseter, wall wart, 25' coax
Nulls out local noise. MSRP $500

Prefer local deal.

73, Bob K2QPN

223. Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-04 15:55:17 UTC
From: kabelectro@...
Topic: 223 Message: 223

Hi,
This is my first post. I am slowly progressing towards the final installation of the Pro-1B. It has been good to read of the trials and tribulations others have experienced. So, my first contribution is a floating preamp platform. I have pictures uploaded now. I have attached the preamp to a PVC platform that snaps onto my aluminum mast pole. this way, I think is better; especially if I have to service the preamp, Looking forward to working with the antenna.
Kevin at KAB here in central NJ USA.

224. Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-06 16:16:16 UTC
From: kabelectro@...
Topic: 223 Message: 224

I have added pictures of the complete installation. I have labeled some of the key components and where I purchased them. You may have to reduce your zoom level to see everything. Yahoo seems to really oversize the pictures. The key components are the messenger ties and the Con-X connectors by Switchcraft. Had a lot of fun putting the Loop up. Now I need to finish the connections and take it for a spin.

225. Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-07 13:05:16 UTC
From: malet-bernard@...
Topic: 223 Message: 225

hello,
You made a beautiful mechanical installation, you deserve respect ..
Now, what are your first reactions headset with your new antenna?
It is connected to any receiver?
Thank you in advance for your answers
Best regards
BM

226. Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-07 14:47:15 UTC
From: kabelectro@...
Topic: 223 Message: 226

Hi Bernard,
Thanks for your comments. I did listen for the first time last nite. First checking for nulls on long wave. I was able to null out local NDB's. Same for AM, easily able to hear 2 stations on the same frequencv by rotating the loop. I have confidence that all is well. Alot of static crashes last nite throuhout shortwave, probably from oncomming storms. Comparing to short wire antenna, The loop is definitely quieter: Buzzes and other forms of manmade interference vanish with the loop. I have watched every youtube example of this antenna and others, so I had high expectations on noise supression and I would say it is very good in that regard. I am 56, when I was a teenager, I did lots of am and shortwave DX. I don't really remember much about band conditions, so I am re-learning what to expect. I had expected stronger signals on WWV for example, but that may just be band conditions considering the time of year(October). I listen to a group of hams on 80 mtrs, and they keep wishing for winter time and better conditions..
I am using the Kenwood R5000. I do find that the receiver performs best with the rf attenuator backed off sometimes all the way(-30). The Loop generates plenty of signal strength most times. Not alot of activity beyond 15 mhz last nite. Again, I am on a learing curve to understand all the band conditions but I had aniticipated more activity there. As I work with the antenna and receiver more, I and sure I will come to a better understanding of overall expectations. I am going back to the clifton labs test report and see if I can log all the frequencies they did in the review. They are in Virginia, so not far from me in NJ.
I asked some youtube authors about antenna height, and the consensus, was that it did not matter much. From the AM DX point of view I decided on the lower height of 10ft because I find as you go higher, the skywave can overwhelm the ground wave and make listening difficult. I base that on 2 GE superradios I have; one on the second floor and one in the basement shack. the difference in reception between them is very different at night.

You have your antenna 40ft in the air. how is your performance on the higher frequencies, >10Mhz?

Thanks again
Kevin

227. Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-07 14:55:00 UTC
From: wmarvin2@...
Topic: 227 Message: 227

Hi Group I've had my Pro1-B for 2 years and find it simply the best the best in all aspects. Using the top shelf QS1R SDR receiver I have the best of two worlds,

My pixel is about 50 feet away from the house mounted 8 feet high on the rotor.....it has survived 70 mph winds and -30 temps with no problems.

I wanted to share my experience on Longwave reception and noise reduction below 250 Khz. It wasn't until I got the Quick Silver QS1R and use it's excellent visual RF display to see wide bandwidths that I could see the noise below 250 KHz especially 40-200 Khz. The noise appears like 20dB above the -125dBm noise floor each flat plateau repeats every 10 Khz spanning about 15 KHz repeating to 20KHz-250KHz. It's called switched power supply RFI. It is not from a external source but inside the shack.

I verified this by turning off the Pixel Loop as the noise did not change. What to do next?? The Pixel is grounded at the mast. My shack ground made no difference either. The RG6 pixel cable is about 6" buried.
About 6 years ago I bought a LF Engineering Ground Isolator unit and attached it between th QS1R SDR and the Pixel pre-amp output.....the noise is totally gone. Clean & quiet receive 30 Khz upward !!

Best Dx

Bill KB9IV

228. Re: [pixel_loop] Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-07 18:53:06 UTC
From: david stremme
Topic: 227 Message: 228

The RG6 pixel cable is about 6" buried

((The RG-6 Pixel Sells is not BURY Grade)) may be a future project too keep in mind
---
On Tue, 10/7/14, wmarvin2@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

Subject: [pixel_loop] Pixel Pro-1B Noise Reduction
To: pixel_loop@yahoogroups.com
Date: Tuesday, October 7, 2014, 8:55 AM

Hi Group I've had my Pro1-B for
2 years and find it simply the best the best in all aspects.
Using the top shelf QS1R SDR receiver I have the best of two
worlds,
My pixel is about 50 feet
away from the house mounted 8 feet high on the
rotor.....it has survived 70 mph winds and -30 temps with
no problems.
I wanted to share my
experience on Longwave reception and noise reduction below
250 Khz. It wasn't until I got the Quick Silver QS1R and
use it's excellent visual RF display to see wide
bandwidths that I could see the noise below 250 KHz
especially 40-200 Khz. The noise appears like 20dB above the
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made no difference either. The RG6 pixel cable is about
6" buried.About 6 years ago I
bought a LF Engineering Ground Isolator unit and attached it
between th QS1R SDR and the Pixel pre-amp
output.....the noise is totally gone. Clean & quiet
receive 30 Khz upward !!
Best
Dx
Bill KB9IV

229. Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-07 20:07:50 UTC
From: malet-bernard@...
Topic: 223 Message: 229

Good evening, Kevin,

I probably expected too much of this RF PRO-1 B loop antenna. I dreamed especially to have the ability to erase some embarrassing stations by deep nulls on much of the HF spectrum. In the final, it did not really happen. However, it works well and I think it's probably better suited for the MW band or reign a large number of stations transmissions. Under certain conditions, it reduces me some embarrassing stations in 90 of the transmitter to listen. If it is in opposition to 180 ° to the other station that does not give me any signal reduction of the annoying station, especially if the station I want to listen to is lower than the annoying station I want to delete.

I am located in the south-west of France, 6 miles from the town of Cahors. Locator JN04QK I chose this place for very low noise. I live on 26 910 ft² of land. My first neighbor is located more than 330 ft. from my house.

We have a multitude of Spanish stations MW, average power. They are located in all regions of the Iberian Peninsula. If I want to listen Nordiques stations thus 180 of these Spanish stations, I have very great difficulty in hearing them. These stations transmit more slowly because more distant from my QTH. In addition, under these conditions, I cannot cancel or reduce those annoying stations located in the south.

The RF-PRO-1B is perched on a mast at 30 ft. (Spiderbeam mast HD, 47 ft.) and after 130 ft. of 75Ω coaxial cable buried. Between the frequency 100 kHz and 10 MHz, I have a very good signal but not as powerful with my long wire of 533 ft. For frequencies above 10 MHz, the Pixel give much better results than my long wire but deep nulls are inaccessible to obtain: it is normal this are the sky waves.

Another important and very little discussed point is that it is absolutely a non-metallic mast to avoid the phenomenon of wave absorption (significantly reducing the effects of deep nulls). A rotor on the ground and no metallic objects over a large area nearby.

Therefore around 10 ft. mast only fiberglass (especially not carbon fiber). This will be my next test. Location not too high to receive the effect of ground waves, listening to between 10 kHz and 5 MHz

Listed receivers, I have 3 x JRC NRD-525, a standard, a full options and VHF + UHF, another with all ESKAB options, 1 x JRC NRD-545, 1 x AOR 3000-A, 1 x Yaesu FRG 9600 and the youngest 1 x ELAD FDM-S2

By cons, and finally, I can only do a lot of compliment to the whip antenna amplified, directed by Jack Smith K8ZOA, with its wonderful concept Z1501, equipped with a telescopic whip of 10 ft. The quick omnidirectional antenna, can easily be installed, on a small 10 ft. metal pipe. In a small area of land, this powerful and discreet antenna lot of noise and that many issuers from 10 kHz to over 30 MHz

See the website of Jack Smith, K8ZOA Clifton Laboratories:
http://www.cliftonlaboratories.com/current_products.htm

A cordial greeting to all members of the Pixel group.

Kevin, please confirm your Locator.

Kevin 73s, the pleasure of reading about your future tests with your new RF-PRO-1B

BM

230. Re: [pixel_loop] Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-07 20:58:56 UTC
From: Bill & Becky
Topic: 227 Message: 230

Hi David The RG6 I use....about 100' is burial grade.

Bill KB9IV

----- Original Message -----
From: david stremme dstremme@... [pixel_loop]
To: pixel_loop@yahoogroups.com
Sent: Tuesday, October 07, 2014 1:53 PM
Subject: Re: [pixel_loop] Pixel Pro-1B Noise Reduction

The RG6 pixel cable is about 6" buried

((The RG-6 Pixel Sells is not BURY Grade)) may be a future project too keep in mind
---
On Tue, 10/7/14, wmarvin2@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

Subject: [pixel_loop] Pixel Pro-1B Noise Reduction
To: pixel_loop@yahoogroups.com
Date: Tuesday, October 7, 2014, 8:55 AM

Â

Hi Group Â I've had my Pro1-B for
2 years and find it simply the best the best in all aspects.
Using the top shelf QS1R SDR receiver I have the best of two
worlds,
My pixel is about 50 feet
away from the house mounted 8 feet high on the
rotor.....it has survived 70 mph winds and -30 temps with
no problems.
I wanted to share my
experience on Longwave reception and noise reduction below
250 Khz. It wasn't until I got the Quick Silver QS1R and
use it's excellent visual RF display to see wide
bandwidths that I could see the noise below 250 KHz
especially 40-200 Khz. The noise appears like 20dB above the
-125dBm noise floor each flat plateau repeats every 10 Khz
spanning about 15 KHz repeating to 20KHz-250KHz. Â It's
called switched power supply RFI. It is not from a external
source but inside the shack.
I verified this by turning
off the Pixel Loop as the noise did not change. What to do
next?? The Pixel is grounded at the mast. My shack ground
made no difference either. The RG6 pixel cable is about
6" buried.About 6 years ago I
bought a LF Engineering Ground Isolator unit and attached it
between th QS1R SDR and the Pixel pre-amp

output.....the noise is totally gone. Clean & quiet
receive 30 Khz upward !!
Best
Dx
Bill Â KB9IV
Â Â

231. Re: [pixel_loop] Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-07 21:32:57 UTC
From: wmarvin2@...
Topic: 227 Message: 231

Hi David I opted for a 100 Ft of RG6 Quad full burial coax cable.

73

Bill KB9IV

232. Re: Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-08 01:14:29 UTC
From: kabelectro@...
Topic: 227 Message: 232

Hi,
In saying that your Pixel is grounded at the mast, do you mean the cable?
I had asked them about that prior to installation and they advised not to do it.
there is an article online that suggests that grounding the coax at both ends is a good idea, But that, apparently does not apply to active antennas.

You may have solved your problem just as equally well, by eliminating the cable ground at the mast.
Grounding is key to good reception -- antenna special on hard-core-dx.com
http://www.hard-core-dx.com/nordicdx/antenna/ground/ground2.html

http://www.hard-core-dx.com/nordicdx/antenna/ground/ground2.html

Grounding is key to good reception -- antenna specia...
http://www.hard-core-dx.com/nordicdx/antenna/ground/ground2.html Grounding is key to good reception by John Doty (as published on rec.radio.shortwave, February 1995) What's gr...

View on www.hard-core-dx.com
http://www.hard-core-dx.com/nordicdx/antenna/ground/ground2.html
Preview by Yahoo

Kevin

233. Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-08 02:24:15 UTC
From: W1JCW
Topic: 227 Message: 233

You cannot have the pre-amp touch the vertical mast, it's supposed to be insulated via those cheap plastic washers

on the U-bolt but the suck.

I told Pixel they need to redesign that and sent them pics.

I used pipe insulation and places the preamp box and cable tied it around the mast and it holds fine.

It's not joined as the instructions show via the U-bolt but mounted below it.

73-

W1JCW

John

From: pixel_loop@...m [mailto:pixel_loop@yahoogroups.com]
Sent: Tuesday, October 07, 2014 8:14 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Pixel Pro-1B Noise Reduction

Hi,

In saying that your Pixel is grounded at the mast, do you mean the cable?

I had asked them about that prior to installation and they advised not to do it.

there is an article online that suggests that grounding the coax at both ends is a good idea, But that, apparently does not apply to active antennas.

234. Re: [pixel_loop] Pixel Pro-1B Noise Reduction

Yahoo group: pixel_loop
Date: 2014-10-08 13:29:24 UTC
From: david stremme
Topic: 227 Message: 234

Bill:
OK- it sounded like you had gotten the RG6 quad from Pixel - I mis-interpreted - sorry
---
On Tue, 10/7/14, 'Bill & Becky' wmarvin2@... [pixel_loop] <pixel_loop@yahoogroups.com>
wrote:

Subject: Re: [pixel_loop] Pixel Pro-1B Noise Reduction
To: pixel_loop@yahoogroups.com
Date: Tuesday, October 7, 2014, 2:58 PM

Hi David The RG6 I use....about 100' is
burial grade.

Bill KB9IV

----- Original Message -----

From:
david stremme dstremme@...
[pixel_loop]
To: pixel_loop@yahoogroups.com

Sent: Tuesday,
October 07, 2014 1:53
PM
Subject: Re:
[pixel_loop] Pixel Pro-1B
Noise Reduction

The RG6 pixel cable is about 6" buried

((The RG-6 Pixel Sells is not
BURY Grade)) may be a future project too keep in
mind

On Tue, 10/7/14, wmarvin2@...
[pixel_loop]
<pixel_loop@yahoogroups.com>

wrote:

Subject:
[pixel_loop] Pixel Pro-1B Noise Reduction
To: pixel_loop@yahoogroups.com
Date:
Tuesday, October 7, 2014, 8:55
AM

Â

Hi Group
Â I've had my Pro1-B for
2 years and
find it simply the best the best
in all aspects.
Using the top shelf QS1R
SDR receiver I have the best of
two
worlds,
My pixel is
about 50 feet
away from the house mounted 8
feet high on the
rotor.....it has
survived 70 mph winds and -30 temps
with
no problems.
I wanted
to share my
experience on Longwave
reception and noise reduction below
250
Khz. It wasn't until I got the
Quick Silver QS1R and
use it's
excellent visual RF display to see
wide
bandwidths that I could see the noise
below 250 KHz
especially
40-200 Khz. The noise appears like 20dB above the
-125dBm noise floor each
flat plateau repeats every 10 Khz
spanning
about 15 KHz repeating to
20KHz-250KHz. Â It's
called switched
power supply RFI. It is not from
a external
source but inside the shack.
I verified this by
turning
off the Pixel Loop as the noise
did not change. What to
do
next?? The Pixel is grounded at the
mast. My shack ground
made no
difference either. The RG6 pixel cable is about

6" buried.About 6 years ago
I
bought a LF Engineering Ground Isolator
unit and attached it
between
th QS1R SDR and the Pixel pre-amp
output.....the noise is totally
gone. Clean & quiet
receive 30 Khz
upward !!
Best
Dx
Bill
Â KB9IV
Â Â

235. Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-08 18:42:30 UTC
From: kabelectro@...
Topic: 223 Message: 235

Hi Bernard,
I am in New Jersey, USA. Not a Ham, so no callsign. Just avid radio hobbyist.
It would be better to have an outdoor long wire to compare, but being on a busy street in a city, I had found that the noise level is too high.
It was my reading about the Loop antennas that brought me back to the hobby after 30 years. And for that it is priceless. I have a long wire that runs around the radio room essentially at ground level. When signals are strong, so long as there is no interference, what I hear on the loop, I also hear on the wire. the Loop being about 2-3 S units higher. The atmosperic noise is higher on the loop than the wire, but I think that is to be expected, and some of that could also be transistor noise from the preamp. Today, at 12 noon, 20mhz WWV reading S3 on the wire and S7 on the loop. Last night I did log 4 NDB's YMW canada on 366Khz, ZV Canada on 274Khz and CLB North Carolina on 216Khz. 2 others I could not find in tables ZHU on 470Khz and AM in 278Khz. It will be interesting to see how things change when the leaves are off the trees. I am using a 1-3/4" aluminum mast pole, The nulls are deep and very sharp, You have to listen carefully or you can miss it!
The clifton lab report showed just how deep these nulls are.
http://www.cliftonlaboratories.com/Documents/Loop%20vs%20Loop%20Final-Final.pdf
http://www.cliftonlaboratories.com/Documents/Loop%20vs%20Loop%20Final-Final.pdf
Kevin

236. Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-09 08:56:20 UTC
From: malet-bernard@...
Topic: 223 Message: 236

Morning Kevin,

Taken note of all your information but !
What is your QTH Locator ?
http://qthlocator.free.fr/index.php
73s
Best regards

Bernard MALET

A big hello also to all members of the group!

237. Re: [pixel_loop] Re: Floating The Preamp

Yahoo group: pixel_loop
Date: 2014-10-09 13:41:33 UTC
From: kevin kabelectro
Topic: 223 Message: 237

Hi Bernard,Now I get it. QTH locator : FN20TP In a quiet area of a band say 75 mtrs, do you notice that the loop has a noise level slightly higher than a passive wire antenna? like 1 s unit higher? ThanksKevin

On Thursday, October 9, 2014 4:56 AM, "malet-bernard@... [pixel_loop]" <pixel_loop@yahoogroups.com> wrote:

  Morning Kevin,
Taken note of all your information but ! What is your QTH Locator
? http://qthlocator.free.fr/index.php 73s Best regards
Bernard MALET
A big hello also to all members of the group!

238. Garden home install

Yahoo group: pixel_loop
Date: 2014-10-09 17:52:48 UTC
From: JRTOW3RD@...
Topic: 238 Message: 238

I added a single photo, in my album titled 'garden home install', in the photo's section. It shows where I stopped with my Pro-1a when I moved to this garden home some fourteen months back. I liked the finished room - on it's own heat pump - located over the two car garage - wired as a media room. I originally wanted it for my g-scale train layout, but it may yet become a big radio/hobby room. I ran a short RG6 jumper to a dual female type F connector (splice) and down the wall to my office's desk CATV outlet. It was an easy installation... a trip downtown for a CM mast tripod mount and a stop at my old house to retrieve the 5 ft mast mounted loop from the deck where it had nulled powerline EMI from in front of my house for several years, weathering even a near-hit by an F4 tornado. It's life is boring now - underground utilities rule! I nulled a local daytime 50 kW-er. The loop is seven feet from the gas furnace flue. I may move it towards the far end of the attic - after I add some more flooring.

John

239. white noise 20mhz nullable

Yahoo group: pixel_loop
Date: 2014-10-10 03:40:16 UTC
From: kabelectro@...
Topic: 239 Message: 239

What do you think about a white noise received at nite on 20Mhz. that can be nulled over 5 S units. What could that be? There really is not much of anything to hear in these bands at nite here, but I thought this was an unsusual phenomenon. Any comments welcome.

240. Pixel pro1B Loop

Yahoo group: pixel_loop
Date: 2014-10-11 01:23:37 UTC
From: nevesjerry@...
Topic: 240 Message: 240

Hello. Recently I have read a few posts regarding the Pixel Pro1B where the Loop. Amplifier is FLOATED. Exactly what does this mean? Is it a situation where the Amplifying unit is placed in a different location?
The instructions do state to place Amplifier on the plate just below the loop element!!!!
What is the reason for the floating amplifier?
I greatly would appreciate a response from one of the Group members.
many thanks, JERRY

241. Re: Pixel pro1B Loop

Yahoo group: pixel_loop
Date: 2014-10-11 04:07:10 UTC
From: kabelectro@...
Topic: 240 Message: 241

hi,
if you click on the photos link at the top, you will see the pictures of my installation. I started the thread about floating the preamp. Simply means that the preamp is not anchored to the antenna mounting plate. I made a plastic platform with snap on clamps all plastic. So the preamp is electrcally and mechanically floating. Concerns have been voiced about the shoulder washers failing. I just did not feel that there was enough clearance to work a wrench easily. and should the unit need servicing, I envisioned difficulty getting everything apart. This way dissasembly is simplified. Hope that is helpful.

242. Pixel pro1B Loop - Floatng pre-amp

Yahoo group: pixel_loop
Date: 2014-10-11 17:54:52 UTC
From: W1JCW
Topic: 240 Message: 242

This is exactly what I have previously explained as well.

Pixel has been made aware of the shoulder washer issue and it was suggested they come up with a better mouse trap.

I simply lowered the pre-amp below the U-bolt, place foam pipe insulation around the mast, secured the pre-amp onto

this, problem solved and I have had no issues since.

Pics available if you like.

73-

W1JCW

John

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, October 10, 2014 11:07 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Pixel pro1B Loop

hi,

if you click on the photos link at the top, you will see the pictures of my installation. I started the thread about floating the preamp. Simply means that the preamp is not anchored to the antenna mounting plate. I made a plastic platform with snap on clamps all plastic. So the preamp is electrcally and mechanically floating. Concerns have been voiced about the shoulder washers failing. I just did not feel that there was enough clearance to work a wrench easily. and should the unit need servicing, I envisioned difficulty getting everything apart. This way dissasembly is simplified. Hope that is helpful.

243. New install

Yahoo group: pixel_loop
Date: 2014-10-11 20:44:07 UTC
From: Bob Severson
Topic: 243 Message: 243

Got my new loop installed about a month ago with rotor, etc. Mounted it on a piece of SKED 40 0 PVC, and used about 100 ft of Quad RG-6. It's about 10 ft off the ground and about 25 ft from transmitting antennas.

Performance above 30 Mtrs is marginal and not really earth shaking below. Hard to find any clear nulls at all.

Is this typical?

Bob
w0TLX
Sent from my iPhone

244. Re: [pixel_loop] New install

Yahoo group: pixel_loop
Date: 2014-10-11 23:18:46 UTC
From: Jack Smith
Topic: 243 Message: 244

Bob:

A loop -- any loop, not just the Pixel -- will not provide reliable or stable nulls on anything other than ground wave. The short version of the reason for this is that sky wave arrives at an angle to the loop plane and introduces a non-symmetrical voltage.

In theory one can tilt the loop so that sky wave arrives through the loop plane but this is difficult to mechanically implement and the angle of arrival varies with frequency, ionospheric conditions, distance of the station, etc.

This has been known since the loop was invented more than 100 years ago.

But, on ground wave signals, you should be able to achieve 30 dB null. The null depth and null azimuth width is such that it takes a careful hand on the rotor control and also require a rotor that can step incrementally a couple degrees or less.

All that being said, a loop can and will present degraded nulls on ground wave signals where it is located near other antennas. The loop isn't magic; it responds to the vector sum of the radiated field components. In an empty field without re-radiating objects, you can see 30 dB null and azimuthal errors of a few degrees easily. If you have it located near other antennas, the field the loop sees is the vector sum of the ground wave and any re-radiated signal from other antennas. This can result in significant bearing errors and/or reduced null loss and the signal the loop is nulling represents the same signal radiated from multiple azimuths, i.e., the various re-radiating objects.

I've measured a significant bearing error with both Pixel and Wellbrook loops due to re-radiation from my 100 ft Rohn tower at frequencies above 1200 KHz or so, where the tower length becomes a significant fraction of a wavelength, particularly it's top loaded with a log periodic antenna. At lower frequencies, bearing error is greatly reduced as the tower and various wire antennas don't radiate significant signals.

Jack K8ZOA

On 10/11/2014 4:44 PM, Bob Severson edina.planner@... [pixel_loop] wrote:
>
>
> Got my new loop installed about a month ago with rotor, etc. Mounted
> it on a piece of SKED 40 0 PVC, and used about 100 ft of Quad RG-6.
> It's about 10 ft off the ground and about 25 ft from transmitting
> antennas.

>
> Performance above 30 Mtrs is marginal and not really earth shaking
> below. Hard to find any clear nulls at all.
>
> Is this typical?
>
> Bob
> w0TLX
> Sent from my iPhone
>
>

245. Re: [pixel_loop] New install

Yahoo group: pixel_loop
Date: 2014-10-12 02:28:42 UTC
From: Bob Severson
Topic: 243 Message: 245

Thanks for your comments and analysis Jack.

I appreciate your input a lot.

Bob

Sent from my iPhone

> On Oct 11, 2014, at 6:18 PM, Jack Smith Jack.Smith@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:
>
> Bob:
>
> A loop -- any loop, not just the Pixel -- will not provide reliable or stable nulls on anything other than ground wave. The short version of the reason for this is that sky wave arrives at an angle to the loop plane and introduces a non-symmetrical voltage.
>
> In theory one can tilt the loop so that sky wave arrives through the loop plane but this is difficult to mechanically implement and the angle of arrival varies with frequency, ionospheric conditions, distance of the station, etc.
>
> This has been known since the loop was invented more than 100 years ago.
>
> But, on ground wave signals, you should be able to achieve 30 dB null. The null depth and null azimuth width is such that it takes a careful hand on the rotor control and also require a rotor that can step incrementally a couple degrees or less.
>
> All that being said, a loop can and will present degraded nulls on ground wave signals where it is located near other antennas. The loop isn't magic; it responds to the vector sum of the radiated field components. In an empty field without re-radiating objects, you can see 30 dB null and azimuthal errors of a few degrees easily. If you have it located near other antennas, the field the loop sees is the vector sum of the ground wave and any re-radiated signal from other antennas. This can result in significant bearing errors and/or reduced null loss and the signal the loop is nulling represents the same signal radiated from multiple azimuths, i.e., the various re-radiating objects.
>
> I've measured a significant bearing error with both Pixel and Wellbrook loops due to re-radiation from my 100 ft Rohn tower at frequencies above 1200 KHz or so, where the tower length becomes a significant fraction of a wavelength, particularly it's top loaded with a log periodic antenna. At lower frequencies, bearing error is greatly reduced as the tower and various wire antennas don't radiate significant signals.
>
>
> Jack K8ZOA
>
>> On 10/11/2014 4:44 PM, Bob Severson edina.planner@... [pixel_loop] wrote:

>>
>>
>> Got my new loop installed about a month ago with rotor, etc. Mounted it on a piece of SKED 40 0 PVC, and used about 100 ft of Quad RG-6. It's about 10 ft off the ground and about 25 ft from transmitting antennas.
>>
>> Performance above 30 Mtrs is marginal and not really earth shaking below. Hard to find any clear nulls at all.
>>
>> Is this typical?
>>
>> Bob
>> w0TLX
>> Sent from my iPhone
>>
>
>

246. General Noise Level.

Yahoo group: pixel_loop
Date: 2014-10-12 18:43:33 UTC
From: kabelectro@...
Topic: 246 Message: 246

I notice a signifiant increase in white-noise-like background noise when powering up the preamp. I expect this is normal. There is no S deflection. In an area where the S level is 0-1 for background, that does not change with power on or off, but the sound of the rushing noise increases 3 fold. Normal?

247. Re: [pixel_loop] General Noise Level.

Yahoo group: pixel_loop
Date: 2014-10-12 19:14:47 UTC
From: Jack Smith
Topic: 246 Message: 247

Until it's possible to build an amplifier with 0 dB noise figure without dunking it in a bath of liquid helium, yes, some increase in noise with the amplifier powered on is inevitable.

Jack K8ZOA

On 10/12/2014 2:43 PM, kabelectro@... [pixel_loop] wrote:
>
> I notice a signifiant increase in white-noise-like background noise
> when powering up the preamp. I expect this is normal. There is no S
> deflection. In an area where the S level is 0-1 for background, that
> does not change with power on or off, but the sound of the rushing
> noise increases 3 fold. Normal?
>
>

248. Re: [pixel_loop] General Noise Level.

Yahoo group: pixel_loop
Date: 2014-10-12 20:33:33 UTC
From: kabelectro@...
Topic: 246 Message: 248

Sure, I understand, I guess, I am just trying to get a handle on what I should expect in terms of noise performance, How that noise might vary on different bands. And that I found it interesting that what sounds like a significant increase in noise does not register as such on the S meter. I really did not think what I am hearing is thermal noise from the amplifier, but rather just plain atomospheric or locally sourced noise. I probably will disconnect the loop just to see for myself.

249. Re: [pixel_loop] General Noise Level.

Yahoo group: pixel_loop
Date: 2014-10-12 20:49:35 UTC
From: Jack Smith
Topic: 246 Message: 249

Most receivers, or at least those that are properly designed, don't apply AGC to weak signals.* Weak signals or noise therefore have a 1:1 relationship between input signal and the noise level heard in the speaker or headphones. Since the S-meter usually displays "AGC" voltage calibrated in terms of S-units or the like, until the AGC threshold is reached, the S-meter won't indicate anything.

I've written a bit about it at:

http://www.cliftonlaboratories.com/receiver_agc_curves.htm
http://www.cliftonlaboratories.com/elecraft_k3_agc_and_s-meter.htm

To measure S/(S+N) you might consider an RMS reading voltmeter on the audio output and operating the receiver with AGC off. Or, if the signal is weak enough, the AGC may be inactive anyway.

* Called "delayed AGC" when the AGC gain reduction is applied to later stages of the receiver but with the input RF amp operating at maximum gain until a certain signal level is reached, above which AGC is applied to all receiver stages. The effect I've tried to describe not "delayed AGC" in this traditional sense, but is rather more of an AGC threshold where below some signal level zero gain reduction is applied.

Jack K8ZOA

On 10/12/2014 4:33 PM, kabelectro@... [pixel_loop] wrote:
>
> Sure, I understand, I guess, I am just trying to get a handle on what
> I should expect in terms of noise performance, How that noise might
> vary on different bands. And that I found it interesting that what
> sounds like a significant increase in noise does not register as such
> on the S meter. I really did not think what I am hearing is thermal
> noise from the amplifier, but rather just plain atomospheric or
> locally sourced noise. I probably will disconnect the loop just to see
> for myself.
>
>

250. 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-13 03:17:09 UTC
From: rs001a@...
Topic: 250 Message: 250

I am presently running my radio on a 12V solar array and would like to also power the Pixel antenna preamp using the system. Does anyone have experience with a low-noise 12V to 24V converter, there are lots of them on the market, but I do not want to introduce more RFI in the shack.

Thanks, Ron
K2RAS

251. Longwave opening up OCT 12 2014

Yahoo group: pixel_loop
Date: 2014-10-13 03:24:39 UTC
From: kabelectro@...
Topic: 251 Message: 251

Starting to see longwave band opening up. While not clear enough to confirm, I am hearing signals on 162, 171 and 183 Khz France, Morocco and Germany respectively. Pretty neat.

252. Re: [pixel_loop] 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-13 08:40:28 UTC
From: Jack Smith
Topic: 250 Message: 252

Keep in mind that the Pixel DC coupler uses a 24V AC transformer. This provides around 30V DC after rectification and filtering to the LM317 regulator input.

With 24V DC power to the coupler power input port, after considering the diode drop (2 Si diodes as it has a bridge rectifier), IR loss in the common mode choke, etc. and the overhead margin of an LM317, operation may be marginal.

Not saying it will work or it won't work, just that it requires analysis and probably measurement under actual operating conditions.

I agree with you that in general switching power supplies are not recommended for low noise RF work.

Jack K8ZOA

On 10/12/2014 11:17 PM, rs001a@... [pixel_loop] wrote:
>
> I am presently running my radio on a 12V solar array and would like to
> also power the Pixel antenna preamp using the system. Does anyone
> have experience with a low-noise 12V to 24V converter, there are lots
> of them on the market, but I do not want to introduce more RFI in the
> shack.
>
>
> Thanks, Ron
>
> K2RAS
>
>

253. Re: [pixel_loop] 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-13 15:38:14 UTC
From: rs001a@...
Topic: 250 Message: 253

You are right, I presumed that the adapter was DC but it is providing 28VAC. I will continue looking for solutions. Is anyone out there running the Pro-1B off batteries??

Thanks, Ron

254. Re: [pixel_loop] 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-13 17:15:45 UTC
From: kabelectro@...
Topic: 250 Message: 254

I have used ferrite common mode chokes, usually used in AC line filters to filter the DC from a switchmode ps with good results. A choke followed by several thousand UF will reduce the HF noise to a reasonably low value, repeat with a second choke and filter cap and you should be able to have a very clean DC that the 317 will reduce even further. of course, you may still have recirculating HF currents on the ground lines. As Jack said, experimentation is the only way to know for sure how well this can work.

255. Re: Pixel pro1B Loop

Yahoo group: pixel_loop
Date: 2014-10-13 17:18:44 UTC
From: nevesjerry@...
Topic: 240 Message: 255

Hello again. On the photos of your installation I wanted to find out how the two clamps are attached to the plate to which the amplifier is attached. Is it with screws or is it glued? If with screws what size and type. If with glue what type of glue. Thanks so much again.
Jerry

256. Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-14 00:03:48 UTC
From: vk2ccj@...
Topic: 250 Message: 256

Just my 2cents worth but I have been running mine on a 12V Gel Cell battery when I want the lowest noise I can get , which is a challenge here , the preamp seems to work fine but the T/R switching does not, as I use it like this for mainly VLF and MF RX not a problem,

Can always go back to the 24VAC when I need to use it with my Tranceiver

Cheers
Cliff vk2ccj

257. Re: [pixel_loop] Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-14 01:17:03 UTC
From: Jack Smith
Topic: 250 Message: 257

While the amp will work in that configuration, the 2nd and 3rd order intermodulation product performance degrades. There will be some improvement in NF, but probably not much more than a half dB.

The amp probably sees around 11V or maybe less on the collector as the amp's on board regulator is also not in normal mode. When you run a linear regulator below the rated voltage, it will try to keep the output up by driving the pass transistor into saturation so it's not as if the regulator shuts down.

Jack K8ZOA

On 10/13/2014 8:03 PM, vk2ccj@... [pixel_loop] wrote:
>
> Just my 2cents worth but I have been running mine on a 12V Gel Cell
> battery when I want the lowest noise I can get , which is a challenge
> here , the preamp seems to work fine but the T/R switching does not,
> as I use it like this for mainly VLF and MF RX not a problem,
>
>
> Can always go back to the 24VAC when I need to use it with my Tranceiver
>
> Cheers
> Cliff vk2ccj
>

258. Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-10-15 01:09:35 UTC
From: rs001a@...
Topic: 250 Message: 258

Ok, thanks for all the responses. Cliff, am I correct that you are supplying 12VDC directly to the preamp power socket (rather than the AC provided by the wall wart)? Is there agreement that that is not a problem, I would consider possibly using two 12V batteries in series in an emergency.

Ron, K2RAS

259. Re: Pixel pro1B Loop

Yahoo group: pixel_loop
Date: 2014-10-15 01:16:34 UTC
From: kabelectro@...
Topic: 240 Message: 259

Hi Jerry.
I just drilled and tapped the plate using a #8 tap and matching drill bit; The photos show the part numbers from Mcmaster.com. Once the plate was assembled, just push it onto the pipe and it snapped right on and grabs very tight. It may be hard to pull off, but I figured if I had to remove the amplifier, I would leave the plate in place and just take off the 4 screws that hold the amp in place.The messenger wire clamps were the coolest thing i was really happy to find. Even if you are not using a messenger line, I used them on on the supporting pole to guide the ground wire up to the antenna mounting plate. That's a Hygain 45 mk2 rotor. Got it used on ebay. New they are expensive $450. But I think they are very reliable. And while you don't need something that good for the loop is so lightweight, I read nothing good about the cheap TV rotators. Let me know if you need more info. Kevin

260. Pixel pro1B Loop - Mod for pre-amp

Yahoo group: pixel_loop
Date: 2014-10-15 11:41:11 UTC
From: W1JCW
Topic: 240 Message: 260

Are the pictures on the yahoo group page for this forum ?

73-

W1JCW

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Tuesday, October 14, 2014 9:17 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Pixel pro1B Loop

Hi Jerry.

I just drilled and tapped the plate using a #8 tap and matching drill bit; The photos show the part numbers from Mcmaster.com. Once the plate was assembled, just push it onto the pipe and it snapped right on and grabs very tight. It may be hard to pull off, but I figured if I had to remove the amplifier, I would leave the plate in place and just take off the 4 screws that hold the amp in place.The messenger wire clamps were the coolest thing i was really happy to find. Even if you are not using a messenger line, I used them on on the supporting pole to guide the ground wire up to the antenna mounting plate. That's a Hygain 45 mk2 rotor. Got it used on ebay. New they are expensive $450. But I think they are very reliable. And while you don't need something that good for the loop is so lightweight, I read nothing good about the cheap TV rotators. Let me know if you need more info. Kevin

261. Pixel pro1B Loop - Mod for pre-amp

Yahoo group: pixel_loop
Date: 2014-10-17 00:18:24 UTC
From: W1JCW
Topic: 240 Message: 261

Okay lots of replies !!

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Wednesday, October 15, 2014 7:41 AM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Pixel pro1B Loop - Mod for pre-amp

Are the pictures on the yahoo group page for this forum ?

73-

W1JCW

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Tuesday, October 14, 2014 9:17 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Pixel pro1B Loop

Hi Jerry.

I just drilled and tapped the plate using a #8 tap and matching drill bit; The photos show the part numbers from Mcmaster.com. Once the plate was assembled, just push it onto the pipe and it snapped right on and grabs very tight. It may be hard to pull off, but I figured if I had to remove the amplifier, I would leave the plate in place and just take off the 4 screws that hold the amp in place.The messenger wire clamps were the coolest thing i was really happy to find. Even if you are not using a messenger line, I used them on on the supporting pole to guide the ground wire up to the antenna mounting plate. That's a Hygain 45 mk2 rotor. Got it used on ebay. New they are expensive $450. But I think they are very reliable. And while you don't need something that good for the loop is so lightweight, I read nothing good about the cheap TV rotators. Let me know if you need more info. Kevin

262. Just an FYI re (Pixel Loop 1B0

Yahoo group: pixel_loop
Date: 2014-10-22 18:14:44 UTC
From: david stremme
Topic: 240 Message: 262

I am no longer employed by www.Pixel-Antennas.com or www.InLogisinc.Com
and will no longer be able to answer any future customer service questions etc.

David
KA0IJV

263. RE: [pixel_loop] Just an FYI re (Pixel Loop 1B0

Yahoo group: pixel_loop
Date: 2014-10-22 20:08:56 UTC
From: Jim Shaw
Topic: 240 Message: 263

David,

Sorry to hear that but hope the move is positive. Do you have a contact name for the 1B loop at InLogis?

73

Jim

AL7BA

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Wednesday, October 22, 2014 2:15 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Just an FYI re (Pixel Loop 1B0

I am no longer employed by www.Pixel-Antennas.com or www.InLogisinc.Com and will no longer be able to answer any future customer service questions etc.

David
KA0IJV

264. Pro-1B with FlexRadio

Yahoo group: pixel_loop
Date: 2014-11-15 22:23:54 UTC
From: rs001a@...
Topic: 264 Message: 264

Does anyone have experience connecting the Pro-1B to a FlexRadio? My shack has a separate transmit antenna, so I and need a solution for the 12V 'Key' signal to turn off the Pixel preamplifier.

Thanks, Ron

K2RAS

265. which rotator to use with Pro-1a?

Yahoo group: pixel_loop
Date: 2014-11-30 12:23:30 UTC
From: JRTOW3RD@...
Topic: 265 Message: 265

My Pro-1a spent it's first years clamped to my backyard deck's apron. Since moving 7/13, however, it has been in the walkup attic of my garden home in a subdivision with a restrictive HOA and it's no outside antenna edict. I have it's 5ft mast sitting in a tripod and would like to use a rotator. The only one I could find locally is a lower end Channel Master from a TV parts jobber and the one Radio Shack $60 unit (I have a $10 off coupon to apply towards that!). What is the best buy for this application? The attic is unheated, so some temperature extremes could be expected - but obviously, it's dry and wind-free, so weather effects would be minimal.

What rotator do you guys use? Thanks!

John

266. Re: [pixel_loop] which rotator to use with Pro-1a?

Yahoo group: pixel_loop
Date: 2014-11-30 13:25:20 UTC
From: Larry Ewan
Topic: 265 Message: 266

I use a channel master. Works fine and is good value.

You should look for a bush or hedge away from the house to put the Pro-1 in. It works fine at ground level. Inside the house you may be overwhelmed with noise.

Larry:::N9JY

From: "JRTOW3RD@...<mailto:JRTOW3RD@...> [pixel_loop]"
<pixel_loop@yahoogroups.com<mailto:pixel_loop@yahoogroups.com>>
Reply-To: "pixel_loop@yahoogroups.com<mailto:pixel_loop@yahoogroups.com>"
<pixel_loop@yahoogroups.com<mailto:pixel_loop@yahoogroups.com>>
Date: Sunday, November 30, 2014 at 7:23 AM
To: "pixel_loop@yahoogroups.com<mailto:pixel_loop@yahoogroups.com>"
<pixel_loop@yahoogroups.com<mailto:pixel_loop@yahoogroups.com>>
Subject: [pixel_loop] which rotator to use with Pro-1a?

My Pro-1a spent it's first years clamped to my backyard deck's apron. Since moving 7/13, however, it has been in the walkup attic of my garden home in a subdivision with a restrictive HOA and it's no outside antenna edict. I have it's 5ft mast sitting in a tripod and would like to use a rotator. The only one I could find locally is a lower end Channel Master from a TV parts jobber and the one Radio Shack $60 unit (I have a $10 off coupon to apply towards that!). What is the best buy for this application? The attic is unheated, so some temperature extremes could be expected - but obviously, it's dry and wind-free, so weather effects would be minimal.

What rotator do you guys use? Thanks!

John

267. Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-12-03 13:46:07 UTC
From: JRTOW3RD@...
Topic: 250 Message: 267

I tried a Jameco/ReliaPro 12V 1A linear wall wart on my Pro-1a and it worked fine - for an hour or so. Neither the wall wart or the Pixel power inserter ran warm, but the inserter mysteriously shuts off, evidenced by a tremendous drop in signal level. Removing the 12V plug from the inserter's jack momentarily and replacing it restores the signal level for another hour or so. A check on the RG6 feed to the antenna revealed <9V - the designed raw DC should be 20V, According to Doug at Pixel, the current draw is a 250 mA maximum - remember that if you make your own power inserter for 12V - a 2.5mH - 10mH RFC that can pass a quarter amp isn't easy to find! The FW bridge rectifier connected to the AC input from the Pixel's transformer-only wall wart places a Si diode Vf (~.7V) in series with each leg, making the well regulated 12V !A Jameco linear power supplies drop to 10.6V. If you were to make up a DC cable and connect it to a 13.2V - 13.8V shack/receiver power supply, like I run my R75 from, you'd have from 12.5-13.1 V available - putting 11+ V on the RG6. Not optimal, but it may be enough to prevent the aperiodic shut-off. Oddly, I am sure it's strong signal handling may suffer, but even the ~9V on the RG6 displays no signal change on locals NDB 'BH' 224 kHz or MWBC WERC 1070 kHz. Sorry I came to the dance a bit late...

John

268. Re: [pixel_loop] Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-12-03 14:49:20 UTC
From: Jack Smith
Topic: 250 Message: 268

The 2nd and 3rd order intermodulation product performance and the 1 dB compression point of the loop preamp will be *seriously* degraded by this. Gain not so much so changed.

The amplifier is designed to operate with 16 to 17V DC measured at the loop preamp output. The difference between the nominal 20V at the DC coupler and this point allows for drop in the coax cable due to DC resistance, temperature changes, etc.

Jack K8ZOA
Clifton Laboratories

On 12/3/2014 8:46 AM, JRTOW3RD@... [pixel_loop] wrote:
>
> I tried a Jameco/ReliaPro 12V 1A linear wall wart on my Pro-1a and it
> worked fine - for an hour or so. Neither the wall wart or the Pixel
> power inserter ran warm, but the inserter mysteriously shuts off,
> evidenced by a tremendous drop in signal level. Removing the 12V plug
> from the inserter's jack momentarily and replacing it restores the
> signal level for another hour or so. A check on the RG6 feed to the
> antenna revealed <9V - the designed raw DC should be 20V, According to
> Doug at Pixel, the current draw is a 250 mA maximum - remember that if
> you make your own power inserter for 12V - a 2.5mH - 10mH RFC that can
> pass a quarter amp isn't easy to find! The FW bridge rectifier
> connected to the AC input from the Pixel's transformer-only wall wart
> places a Si diode Vf (~.7V) in series with each leg, making the well
> regulated 12V !A Jameco linear power supplies drop to 10.6V. If you
> were to make up a DC cable and connect it to a 13.2V - 13.8V
> shack/receiver power supply, like I run my R75 from, you'd have from
> 12.5-13.1 V available - putting 11+ V on the RG6. Not optimal, but it
> may be enough to prevent the aperiodic shut-off. Oddly, I am sure it's
> strong signal handling may suffer, but even the ~9V on the RG6
> displays no signal change on locals NDB 'BH' 224 kHz or MWBC WERC 1070
> kHz. Sorry I came to the dance a bit late...
>
>
> John
>
>

269. Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-12-05 17:45:42 UTC
From: JRTOW3RD@...
Topic: 250 Message: 269

Thanks, Jack - you guys should know re the strong signal performance at 12V... after all, it's your design!

Ron, perhaps the best 'everyday' approach would be to series connect a small 4-6 A-Hr 6V or 12V gel cell with your 12V rail just for the Pixel preamp, keeping it topped up with a small solar array of it's own? You could make your own power inserter, too - putting a bit more on the preamps input voltage - and improving it's 12V-only 'emergency' use. I don't like inverters... any form of RFI, for that matter!

John

270. Re: [pixel_loop] Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-12-05 19:54:41 UTC
From: Steve Ratzlaff
Topic: 250 Message: 270

The Pixel preamp that K8ZOA designed has an internal 13.6 volt regulator, that's why the minimum input voltage is specified as 16 volts. (With approx. 260 mA current draw for the preamp.)
Steve

On 12/5/2014 9:45 AM, JRTOW3RD@... [pixel_loop] wrote:
>
> Thanks, Jack - you guys should know re the strong signal performance
> at 12V... after all, it's your design!
>
>
> Ron, perhaps the best 'everyday' approach would be to series connect a
> small 4-6 A-Hr 6V or 12V gel cell with your 12V rail just for the
> Pixel preamp, keeping it topped up with a small solar array of it's
> own? You could make your own power inserter, too - putting a bit more
> on the preamps input voltage - and improving it's 12V-only 'emergency'
> use. I don't like inverters... any form of RFI, for that matter!
>
>
>

271. Re: [pixel_loop] Re: 12V to 24V Up-Converter for Pro-1B Antenna Preamp

Yahoo group: pixel_loop
Date: 2014-12-08 15:32:40 UTC
From: kabelectro@...
Topic: 250 Message: 271

Hi,
Surely, there must be some simple schematics of linear up convertors. I would think it pretty easy to make a sine wave oscillator that runs on 12VDC and drives a small transformer that doubles the voltage, than recitfy and filter for 24VDC. May not be too efficient, but it would be clean.

272. Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-17 19:18:46 UTC
From: doug12455@...
Topic: 272 Message: 272

Gents, have a look at my vid. Guys, notice the huge spike. This occurs across several bands. The colder it is, the worse it is. I've since replaced the coax (RG6 quad/shield) including the feed from the amp p/s to the radio. No change. You can tell when I handle the power supply you see the spike jump around a little, then I shut off the supply and back on, and the spike is gone but will return. It always returns higher in freq, then slowly drops down to it's present location in the vid. I've also disassembled the loop some time back cleaning and checking connections. This has been going on since last winter. I did not notice this when temps seemed to get above say 45/dg or 7/C. Any ideas? Maybe the amp is failing? Thanks for any input.

-Brian

antenna issue https://www.youtube.com/watch?v=uvZF--cGA7s&feature=youtu.be

https://www.youtube.com/watch?v=uvZF--cGA7s&feature=youtu.be

antenna issue https://www.youtube.com/watch?v=uvZF--cGA7s&feature=youtu.be Guys, notice the huge spike. This occurs across several bands. The colder it is, the worse it is. I've since replaced the coax (RG6 quad/shield) including th...

View on www.youtube.com https://www.youtube.com/watch?v=uvZF--cGA7s&feature=youtu.be
Preview by Yahoo

273. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-17 23:25:56 UTC
From: Bob Betts
Topic: 272 Message: 273

Brian:
If you "cup" the P/S with your hand, does the frequency shift?

Is there any way you can put a scope on the power supply output?

Bob, N1KPR

http://www.bobsamerica.com http://www.youtube.com/n1kpr

Engineering: Where Enigma meets Paradox

From: "doug12455@... [pixel_loop]" <pixel_loop@yahoogroups.com>
To: pixel_loop@yahoogroups.com
Sent: Saturday, January 17, 2015 2:18 PM
Subject: [pixel_loop] Possible receive amp issue?

Gents, have a look at my vid. Guys, notice the huge spike. This occurs across several bands. The colder it is, the worse it is. I've since replaced the coax (RG6 quad/shield) including the feed from the amp p/s to the radio. No change. You can tell when I handle the power supply you see the spike jump around a little, then I shut off the supply and back on, and the spike is gone but will return. It always returns higher in freq, then slowly drops down to it's present location in the vid. I've also disassembled the loop some time back cleaning and checking connections. This has been going on since last winter. I did not notice this when temps seemed to get above say 45/dg or 7/C. Any ideas? Maybe the amp is failing? Thanks for any input.

-Brian

antenna issue

antenna issue
Guys, notice the huge spike. This occurs across several bands. The colder it is, the worse it is. I've since replaced the coax (RG6 quad/shield) including th...
View on www.youtube.com Preview by Yahoo

274. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 01:28:40 UTC
From: doug12455@...
Topic: 272 Message: 274

Good idea and thanks for the reply Bob. Unfortunately I no longer have a scope. What is strange is this. My room the equipment is in sits at a fairly constant 70 - 75/dg year round, maximum temp swing. The issue at hand only occurs when outside temps drop into say into the 30. And again depending on outside temp it may remain gone for some time. The colder it is, the worse it is. Example:: It was hovering around 0/dg the other day, and the problem was almost constant. Meaning I could tap the p/s off/on, and the spike would come right back within a second or two. For giggles I tried grounding the coax and that had no effect. But just me touching the p/s, you can see the spike wiggle/shift freq very slightly. Attaching the ground also has the same effect.

Oh one more thing. Last year when I was trouble shooting this. I attached the antenna to an Icom 7410 and a TS-2000 (borrowed). Just to see if somehow someway a radio was part of the cause. Nope, I could clearly hear & see the carrier/spike on either radio.

-Brian

275. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 01:48:00 UTC
From: Bob Betts
Topic: 272 Message: 275

Just a guess, but sounds like something in the preamp's diplexer (bias-t) went soft....maybe the DC block cap. That would explain the temp. effects.

Have you talked to the factory?

Bob, N1KPR

http://www.bobsamerica.com http://www.youtube.com/n1kpr

Engineering: Where Enigma meets Paradox

From: "doug12455@... [pixel_loop]" <pixel_loop@yahoogroups.com>
To: pixel_loop@yahoogroups.com
Sent: Saturday, January 17, 2015 8:28 PM
Subject: Re: [pixel_loop] Possible receive amp issue?

Good idea and thanks for the reply Bob. Unfortunately I no longer have a scope. What is strange is this. My room the equipment is in sits at a fairly constant 70 - 75/dg year round, maximum temp swing. The issue at hand only occurs when outside temps drop into say into the 30. And again depending on outside temp it may remain gone for some time. The colder it is, the worse it is. Example:: It was hovering around 0/dg the other day, and the problem was almost constant. Meaning I could tap the p/s off/on, and the spike would come right back within a second or two. For giggles I tried grounding the coax and that had no effect. But just me touching the p/s, you can see the spike wiggle/shift freq very slightly. Attaching the ground also has the same effect.

Oh one more thing. Last year when I was trouble shooting this. I attached the antenna to an Icom 7410 and a TS-2000 (borrowed). Just to see if somehow someway a radio was part of the cause. Nope, I could clearly hear & see the carrier/spike on either radio.

-Brian

276. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 02:01:35 UTC
From: doug12455@...
Topic: 272 Message: 276

No sir, but I'll try doing that during the week. May be time to send the pre-amp in for a check-up. Thanks Bob.

-Brian

277. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 02:08:59 UTC
From: Jack Smith
Topic: 272 Message: 277

Some possibilities ...

1) Under certain circumstances, three terminal regulators can oscillate. The loop amplifier has a 3-terminal regulator and it is fitted with several bypass capacitors that prevent that sort of problem. The caps in question are high quality Panasonic surface mount electrolytic parts as well as low ESR high value ceramics and should function over a wide temperature range - but it's possible one is defective or the reflow solder joints attaching the bypass caps to the PCB have a temperature related intermittent.

2) I would also put a DC voltmeter across the power coupler connector (the one TO the loop) and verify that the voltage is 20V or so and that it stays around 20V under load. (Ideally measure the voltage when connected to the loop.) Extreme conditions of voltage - particularly low voltage - may result in out-of-specification loop amplifier performance.

3) For a really off-the-wall possibility, keep in mind that the loop amplifier is a high gain device and if there is a coax output shield or input shield problem (where the connectors don't make reliable contact with the amplifier enclosure, for example) it's theoretically possible to establish a feedback loop via leakage from loop amp out to loop amp input. Touching the DC coupler might add or alter the feedback mechanism enough to shift the spurious frequency. This would be an extremely unusual thing to find as the problem; certainly nothing I've ever run across, but it can't be 100% discarded.

Jack K8ZOA
Clifton Laboratories

On 1/17/2015 8:28 PM, doug12455@... [pixel_loop] wrote:
>
> Good idea and thanks for the reply Bob. Unfortunately I no longer have
> a scope. What is strange is this. My room the equipment is in sits at
> a fairly constant 70 - 75/dg year round, maximum temp swing. The issue
> at hand only occurs when outside temps drop into say into the 30. And
> again depending on outside temp it may remain gone for some time. The
> colder it is, the worse it is. Example:: It was hovering around 0/dg
> the other day, and the problem was almost constant. Meaning I could
> tap the p/s off/on, and the spike would come right back within a
> second or two. For giggles I tried grounding the coax and that had no
> effect. But just me touching the p/s, you can see the spike
> wiggle/shift freq very slightly. Attaching the ground also has the
> same effect.
>
> Oh one more thing. Last year when I was trouble shooting this. I

> attached the antenna to an Icom 7410 and a TS-2000 (borrowed). Just to
> see if somehow someway a radio was part of the cause. Nope, I could
> clearly hear & see the carrier/spike on either radio.
>
> -Brian
>
>

278. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 08:13:41 UTC
From: Chipensaw
Topic: 272 Message: 278

Hello Brian,

Where are you located? If not to far away I can ship you an extra power inserter to try and verify the issue. I am located in Oregon.

Thank you,

Jay
K7GFH

Note: It's OK to print this email. Paper is a biodegradable, renewable, sustainable product made from trees. Growing and harvesting trees provides jobs for millions of Americans. Working forests are good for the environment and provide clean air and water, wildlife habitat and carbon storage. Thanks to improved forest management and outstanding forestry equipment, we have more trees today than we had 100 years ago.

279. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 08:19:53 UTC
From: kkyahoo
Topic: 272 Message: 279

Brian,

Sounds like the power supply is oscillating. Probably a 3 terminal regulator, these need to have their inputs and outputs decoupled. The spike I see in the video is definitely an oscillation and it will be temp and handling related.

Kevin

----- Original Message -----
From: doug12455@... [pixel_loop]
To: pixel_loop@yahoogroups.com
Sent: Saturday, January 17, 2015 7:18 PM
Subject: [pixel_loop] Possible receive amp issue?

Gents, have a look at my vid. Guys, notice the huge spike. This occurs across several bands. The colder it is, the worse it is. I've since replaced the coax (RG6 quad/shield) including the feed from the amp p/s to the radio. No change. You can tell when I handle the power supply you see the spike jump around a little, then I shut off the supply and back on, and the spike is gone but will return. It always returns higher in freq, then slowly drops down to it's present location in the vid. I've also disassembled the loop some time back cleaning and checking connections. This has been going on since last winter. I did not notice this when temps seemed to get above say 45/dg or 7/C. Any ideas? Maybe the amp is failing? Thanks for any input.

-Brian

antenna issue

antenna issue Guys, notice the huge spike. This occurs across several bands. The colder it is, the worse it is. I've since replaced the coax (RG6 quad/shield) including th...
View on www.youtube.com Preview by Yahoo

280. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 17:48:36 UTC
From: doug12455@...
Topic: 272 Message: 280

Thanks Jack. I'll open the amp and check the voltage to be sure the amp is doing it's job. I've often wondered what the p/s was doing/reading at the amp under load.

-Brian

281. Re: [pixel_loop] Possible receive amp issue?

Yahoo group: pixel_loop
Date: 2015-01-18 17:54:08 UTC
From: doug12455@...
Topic: 272 Message: 281

Thanks Jay that's a generous offer. But no need. At this point if the voltage at the amp is correct, I may just send the preamp & p/s and have it properly checked. It really isn't a big deal as the spikes mostly occur in bands (few exceptions) I do not monitor. Plus most times I can get rid of it for some time depending on temp. This has been going on for some time and in fact I thought I licked it when I physically disassembled and cleaned the loop. But once it came back, I then replaced all coax (except the portion from the loop to the preamp, which I'll replace maybe today just to see the effect).

-Brian

****
Hello Brian,

Where are you located? If not to far away I can ship you an extra power inserter to try and verify the issue. I am located in Oregon.

Thank you,

Jay
K7GFH

282. HOW THE "LOOP" IS MADE

Yahoo group: pixel_loop
Date: 2015-02-13 17:02:44 UTC
From: david stremme
Topic: 282 Message: 282

PIXEL HAS CHANGED NAME TO "InLogiInc" but it's the same RF-PRO-1B RECEIVE ONLY ANTENNA
RF PRO 1B Loop Antenna

```
|   |
|   | |   |   |   |   |   |
| RF PRO 1B Loop Antenna |
| |
| View on www.youtube.com | Preview by Yahoo |
| |
|   |
```

I'M NO LONGER THERE AS CUST SUPPORT - BUT THOUGHT I'D SHARE ANYWAY

283. Re: Problem with preamp or supply?

Yahoo group: pixel_loop
Date: 2015-02-27 17:06:41 UTC
From: rwhitetexas@...
Topic: 218 Message: 283

Jay, what was the result of your info from Pixel? I just started having the same problem with my LNA at cold temps (+20 to +30 deg F now in Dallas).

Thanks,

Roger W5RDW

284. Re: [pixel_loop] Re: Problem with preamp or supply?

Yahoo group: pixel_loop
Date: 2015-02-27 23:52:57 UTC
From: Chipensaw
Topic: 218 Message: 284

I am not sure if the exact cause, Pixel was very good about getting me out a new preamp. They eluded to the amplifiers having shorted but that was about it. They sent me a new one and I returned the old one for core credit. Have you opened it up and looked for cold solder joints?

Thank you,

Jay

> On Feb 27, 2015, at 9:06 AM, rwhitetexas@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:
>
> Jay, what was the result of your info from Pixel? I just started having the same problem with my LNA at cold temps (+20 to +30 deg F now in Dallas).
>
>
> Thanks,
>
> Roger W5RDW
>

285. Re: [pixel_loop] Re: Problem with preamp or supply?

Yahoo group: pixel_loop
Date: 2015-02-28 00:07:24 UTC
From: W5rdtx
Topic: 218 Message: 285

Someone said the preamp is a sealed unit. I'll wait until it warms up to see what happens before I send it back.

Roger White W5RDW
Murphy, TX

> On Feb 27, 2015, at 5:52 PM, Chipensaw <chipensaw@...> wrote:
>
> I am not sure if the exact cause, Pixel was very good about getting me out a new preamp. They eluded to the amplifiers having shorted but that was about it. They sent me a new one and I returned the old one for core credit. Have you opened it up and looked for cold solder joints?
>
> Thank you,
>
> Jay
>
>
>
>> On Feb 27, 2015, at 9:06 AM, rwhitetexas@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:
>>
>> Jay, what was the result of your info from Pixel? I just started having the same problem with my LNA at cold temps (+20 to +30 deg F now in Dallas).
>>
>>
>> Thanks,
>>
>> Roger W5RDW
>>

286. HIgh mount for higher freqs?

Yahoo group: pixel_loop
Date: 2015-03-19 21:10:04 UTC
From: fyngyrz@...
Topic: 286 Message: 286

Ok, general question for all, and specific theory-wise for the manufacturer, who usually monitors the group.

I've got a pixel loop, mounted at about 7 feet (that's the height of the bottom edge of the loop itself) and it works *incredibly* well on oh, say, 40 meters and below.

Above 40 meters, the advantage slowly goes back to my other antennas, and as the performance of my 20 meter beam radically increases with height above ground, I'm wondering if that might not also be true for higher frequencies with the loop as well.

I understand that raising (for instance) an 80 meter antenna to appropriate heights works well also, but at that wavelength, "appropriate" typically equates to "impractical." At 20...10 meters, not so much.

HF also tends to come in at a higher angle, as I understand it; it's not groundwave, or at least not so much.

So can anyone report on the difference between a fairly high mount -- say, 40 feet -- and a ground mount?

Feel free to disabuse me of my misconceptions, which may be plentiful and deep. :)

--Ben

aka "fyngyrz"
aka AA7AS
aka "Didn't I block that guy yet?"

287. Re: HIgh mount for higher freqs?

Yahoo group: pixel_loop
Date: 2015-03-19 22:34:21 UTC
From: doug12455@...
Topic: 286 Message: 287

Good post about there found here.

http://forums.radioreference.com/receive-antennas-below-30mhz/246590-pixel-pro-1b-loop-antenna.html http://forums.radioreference.com/receive-antennas-below-30mhz/246590-pixel-pro-1b-loop-antenna.html

289. Re: HIgh mount for higher freqs?

Yahoo group: pixel_loop
Date: 2015-03-20 15:23:28 UTC
From: Anony Mous
Topic: 286 Message: 289

Thanks, Doug. Very illuminating.

290. Re: [pixel_loop] Re: HIgh mount for higher freqs?

Yahoo group: pixel_loop
Date: 2015-03-20 15:35:39 UTC
From: Cecil Bayona
Topic: 286 Message: 290

Ben, is that you?

On 3/20/2015 10:23 AM, Anony Mous fyngyrz@... [pixel_loop] wrote:
> Thanks, Doug. Very illuminating.
>
>

291. Pixel 1B stopped working last night ?

Yahoo group: pixel_loop
Date: 2015-04-05 22:23:36 UTC
From: vk2ccj@...
Topic: 291 Message: 291

I have had this Pixel 1B for some 2012 in fact but this morning woke up to find no gain at all , Even local NDB's very weak , tried a couple different RX same result.

Noticed too I have a heavy FOG so may wait to things warm up, was working when I went to bed and left it on monitoring the 630M band.

Is there a circuit for the Preamp ?

73
Cliff VK2NP VK2CCJ

292. Re: Pixel 1B stopped working last night ?

Yahoo group: pixel_loop
Date: 2015-04-06 10:57:27 UTC
From: JRTOW3RD@...
Topic: 291 Message: 292

First, check that the green LED on the power inserter is on - check that the switch controls it (Seriously...). If it isn't, check the inserter's temperature - and the wall wart's too. If they are hot, you may have a problem in the inserter - check it's feed to the antenna (It should have ~20VDC from the center pin to shield.). Check the wall wart's open circuit output voltage - it should be 20-22V AC. If you are still good, plug it back in and disconnect the antenna lead at the inserter. Now, if the green LED is lit, or if it was lit initially, unplug the wall wart's connection to the inserter - it should take 5 or so seconds to extinguish. Try this several times. If reconnecting the antenna lead extinguishes the green LED, you've got problems. If not, pull the 20VAC plug from the inserter - the proper load of the preamp should extinguish the LED in a second. If it's still slow, you have a break in your feed somewhere. Remake the F connectors... Murphy's Law dictates that it will be the hardest one to get too... or, even more likely, the one you didn't wrap! If you isolate the pre-amp and the green LED is on - and extinguishes in 5 seconds when the 20VAC is unplugged from the inserter, the fault may be in the pre-amp - but this is unlikely - check the center pin to shield for the ~20 VDC. A loose or broken connection is a good bet. Good luck!

John

293. PS voltage when loaded

Yahoo group: pixel_loop
Date: 2015-08-05 01:45:32 UTC
From: doug12455@...
Topic: 293 Message: 293

Ladies & Gents, I'm curious as to what voltage you see from the PS when loaded (amp on), thanks.

-Brian

294. pro 1b loop install

Yahoo group: pixel_loop
Date: 2015-08-12 13:40:32 UTC
From: jhill_81@...
Topic: 294 Message: 294

i was testing the loop and the gain jumped up and down , then seems like it never came back up.... runs about 10db below the dipole and vertical signals now.
on 24mhz seems to have no effect on high static level
helps about 10db on static on 80m
no static on 40m band to test with last few weeks... some how.....

hearing alot of pops from the old alliance TV rotor turning , any tips to get rid of that ?
how can i test preamp for correct gain ?

how important is the path of the coax and rotator cable from the loop to the house ?
overhead path currently.

thanks all
live static free
ko6kL
Brad

295. Re: Pixel pro1B Loop

Yahoo group: pixel_loop
Date: 2015-08-12 13:44:55 UTC
From: jhill_81@...
Topic: 240 Message: 295

now that you dont work for them you can better answer the questions ... come on bro

296. Re: [pixel_loop] pro 1b loop install

Yahoo group: pixel_loop
Date: 2015-08-12 19:24:05 UTC
From: Jack Smith
Topic: 294 Message: 296

Sounds like a mechanical problem to me - bad coax connector or water in the connector or coax.

Water in the connector or coax will usually manifest itself with a cracking noise as the copper center conductor is electrolyzed into greenish-brown sludge (on the cable from the DC power coupler to the loop amp.) If there's a problem with the cable between the loop amp input and the loop connection, it won't electrolyze into sludge, but it can still cause loss of signal level and static bursts.

Jack K8ZOA

On 8/12/2015 9:40 AM, jhill_81@... [pixel_loop] wrote:
>
> i was testing the loop and the gain jumped up and down , then seems
> like it never came back up.... runs about 10db below the dipole and
> vertical signals now.
>
> on 24mhz seems to have no effect on high static level
>
> helps about 10db on static on 80m
>
> no static on 40m band to test with last few weeks... some how.....
>
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> hearing alot of pops from the old alliance TV rotor turning , any tips
> to get rid of that ?
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> how can i test preamp for correct gain ?
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>
> how important is the path of the coax and rotator cable from the loop
> to the house ?
>
> overhead path currently.
>
>
> thanks all
>
> live static free
>
> ko6kL
>
> Brad
>
>

>
>
>
>

297. Re: PS voltage when loaded

Yahoo group: pixel_loop
Date: 2015-08-12 19:30:42 UTC
From: JRTOW3RD@...
Topic: 293 Message: 297

+19.8V to ground as measured with my Cen-Tech 3.5 digit DMM (Free with $5 purchase!). I used some F-BNC adapters and a BNC Tee. Incidentally, my Pro-1a, which has a later Pro-1b preamp, developed an aperiodic massive drop in signal levels. from LW to MW to SW last week. My Pro-1a weathered a near hit by a tornado 1/12 and was moved to my walkup attic in my current home 7/13. . While it was outdoors, it had tightly wrapped connections - but they were left hand tight when installed here - after all, it is out of the weather. Wrong! Extreme temp fluctuations will cause F connectors to loosen. My 'fault' was a loose F female-female splice - problem solved. I'll start a separate thread to report my measured temps!

John

298. Temperature extremes problematic to loop in attics!

Yahoo group: pixel_loop
Date: 2015-08-12 20:34:02 UTC
From: JRTOW3RD@...
Topic: 298 Message: 298

My Pro-1a stood proudly doing it's duty while mounted on a 5 ft mast section to an eave mount on my deck's apron for years. It weathered a near hit by a tornado 1/12, which removed the deck furniture, destroyed the wind chimes, and wound the excess RG-6 around the Pro-1a's mast. When the power returned... the antenna was okay! I moved to my current garden home 7/13 - with a no outside antenna edict from the HOA. I got a tripod mast base and carried it and my 'lollipop', the Pro-1a on it's 5 ft mast, up the stairs to the floored part of my attic. My 'office', aka 'the shack' was directly below - and my desk has a CAT connector and a bulkhead F female connector behind it. The cable went to an F female-female splice back to the CATV terminus - I broke the splice and connected a 15 ft RG-6QS jumper from the splice to the Pro-1a, the power inserter being connected at my office - literally a ten minute installation - and quiet, too, due to the underground utilities.

Skip ahead two years to last weekend - and the sudden onset of great signal level losses, seemingly in the afternoon - but normal by the next AM. I went up to the attic - and checked the connections. The loop to pre-amp in jumper was tight - and still wrapped from my original installation, as was the 15 ft lead connected to the preamp's out... but the splice end was loose! Tightening it fixed my problem.

I checked the attic temperature with a reflected infrared thermometer in the winter - when the outside temp dropped to 14F, the attic was 50F. I checked the temp minutes ago - 90F outside, 114F inside the attic - 134F on the preamp. I suppose 100F days have carried the preamp to 150+F. I hope it's rated for such an extreme. The extreme temps thermally cycle the F connectors, loosening them. Advice for any sudden loss of Pixel Pro-1's performance? Break each and every F connector - and remake them. You might be lucky - like I was!

John

PS I just checked the outside temp - still 90F - no breeze. The sunlit steep dark-grey roof measured 158F, while the blue sky overhead read 40F (My neighbor's already think I am nuts...).

299. Re: PS voltage when loaded

Yahoo group: pixel_loop
Date: 2015-08-13 03:25:34 UTC
From: doug12455@...
Topic: 293 Message: 299

Thanks John, that is what I'm seeing.

-Brian

300. Re: pro 1b loop install

Yahoo group: pixel_loop
Date: 2015-08-14 05:05:55 UTC
From: jhill_81@...
Topic: 294 Message: 300

this is a band new pro1b , gain seems low

301. Re: pro 1b loop install

Yahoo group: pixel_loop
Date: 2015-08-14 23:47:48 UTC
From: jhill_81@...
Topic: 294 Message: 301

how to test for correct gain on preamp.
answer was to bypass amp and check for 5 S-unit drop on local AM broadcast stations.

I am still looking for a way to remove pops and static from rotor motor ... since it is AC 24volts
im thinking a AC broad band filter as used on power lines might be helpful.

live static free
brad
ko6kL

302. Re: pro 1b loop install

Yahoo group: pixel_loop
Date: 2015-08-14 23:57:08 UTC
From: jhill_81@...
Topic: 294 Message: 302

regarding bad connectors , on powered rg-6 , I have found many connectors start to go bad very quickly if left on contact with the ground/dirt/water... small amount of current must start to flow and reverse the chrome plating so to speak. what are folks using for emp/ lightening protection ?
I think a sat/cable TV ground block would be the minimum
https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0CAQQjBxqFQoTCIOZ153jqccCFYJSiAods4IACQ&url=https%3A%2F%2Fwww.perfect-10.tv%2FWebStore%2Fimages%2FProducts%2FGRB2THRUL.jpg&ei=M4DOVcOzLoKloQSzhYJI&bvm=bv.99804247,d.cGU&psig=AFQjCNHmYjpCSWEd5v70pmjXDbPVk9aBFA&ust=1439682975734746 https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0CAQQjBxqFQoTCIOZ153jqccCFYJSiAods4IACQ&url=https%3A%2F%2Fwww.perfect-10.tv%2FWebStore%2Fimages%2FProducts%2FGRB2THRUL.jpg&ei=M4DOVcOzLoKloQSzhYJI&bvm=bv.99804247,d.cGU&psig=AFQjCNHmYjpCSWEd5v70pmjXDbPVk9aBFA&ust=1439682975734746

but something to limit the center conductor would be better.

303. Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2015-08-15 15:01:37 UTC
From: Terry Palmersheim
Topic: 303 Message: 303

Does anybody know what type of transistors (or MiniCircuits)are used in the Pro1B preamp?

Terry, KT7DX

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304. Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-09-11 12:17:51 UTC
From: shansen@...
Topic: 304 Message: 304

Just joined this group and have been seriously considering the purchase of a Pro-IB loop. I'm in a fairly rural area but have a fair amount of QRM on 75/80 and to a slightly lesser extent 40 meters. I fixed it somewhat with a separate Rx antenna (PAR EF-SWL) that is located about 75 ft. from the house and power lines. It's a big improvement but only a partial solution.

My main use of these bands is for statewide (Maine) and New England area nets. Therefore any antenna has to be more or less omnidirectional. Some of the incident signals should be of the NVIS sort which (I think) won't pose an issue but there are also a few stations within 40 miles or so.

Does anyone have any experience using the loop in this type of application?

Thanks.
73, Steve KB1TCE

305. Re: Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-09-11 21:51:47 UTC
From: vk5zuc@...
Topic: 304 Message: 305

Steve,
I am in the burbs and the loop is better for RX on all bands nearly all the time. Directional for ground wave but not sky wave near or far. Switching antennas with close and not so close stations is intriguing.
Andrew de VK5CV

306. Re: [pixel_loop] Re: Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-09-11 22:55:26 UTC
From: shansen@...
Topic: 304 Message: 306

Thanks Andrew. I plan to leave my wire Rx antenna in place so, yes, it will be interesting to compare. Sounds like the right way to go.

73, Steve KB1TCE

On Fri, September 11, 2015 5:51 pm, vk5zuc@... [pixel_loop] wrote:
> Steve,
> I am in the burbs and the loop is better for RX on all bands nearly all
> the time. Directional for ground wave but not sky wave near or far.
> Switching antennas with close and not so close stations is intriguing.
> Andrew de VK5CV
>
>
>

307. Re: Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-09-12 17:32:54 UTC
From: Mr B r a d
Topic: 304 Message: 307

i find the key part in my station is the 5 or 10 way antenna switch and lots of (mostly wire) antennas....the pro1b loop has been a nice addition to the station. it helped me to find the direction of the static from the guy next door , so i moved it away from that part of the yard and this has helped.I used a small shortwave radio and walked the yard to help find a better install location. I also found i had to hold the radio up high as the brick fence was hiding the static... I wonder now if i should mount the loop loweras its up 9 ft high now...
I found heavy static on 1.96 am and 3960 am and used this signal to find a better location away from the static coming from might be the dish network mess next door north and also a CCTV cam on the house to the west (switching power supplies). i'm thinking of putting a laser pointer on the loop rotor to point at the null area... and perhaps the offending source of static...the static for my dipole is like S9 on 160m and s7 on 80m bandsomehow not much on AM broadcast band except at ~1020khz and around 1400kc ... harder to tell now days with all the HD signals jamming the small stations .with the loop nulled to the static i can drop the static down to s5 ~ S3 finding it very helpful on 1.8-4mhz ... i may just move it to the front yard if i can get a few more DB's ..

bradKo6kLhttps://s3.amazonaws.com/files.qrz.com/l/ko6kl/Brads_Shack_overhead_PNG.jpg

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| |
| View on s3.amazonaws.com | Preview by Yahoo |
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308. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2015-09-22 17:44:43 UTC
From: Simon Brown
Topic: 303 Message: 308

Terry,

Did you find an answer? Somehow I've 'modified' one of my units, gain is almost 30 dB down so I would like to get a few spares. I'll open it up in a few days.

Simon Brown G4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 15 August 2015 16:02
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Transistors used in Pro1B

Does anybody know what type of transistors (or MiniCircuits)are used in the Pro1B preamp?

Terry, KT7DX

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309. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2015-09-23 01:40:08 UTC
From: Terry Palmersheim
Topic: 303 Message: 309

Simon,

No, I haven't yet. Mine went down too, a few months ago but they repaired it under warranty. It sounds like your having the same problem as I did. I use mine with a SDRPlay and your software, actually. I like yours better than HDSDR because I can't seem to change the bandwidth on HDSDR.

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Tuesday, September 22, 2015 5:45 PM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Terry,

Did you find an answer? Somehow I've 'modified' one of my units, gain is almost 30 dB down so I would like to get a few spares. I'll open it up in a few days.

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310. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2015-09-23 05:59:58 UTC
From: Simon Brown
Topic: 303 Message: 310

Hi terry,

Thanks for the feedback - I'll have my US partners find out what device is used.

Simon Brown G4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 23 September 2015 02:40
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Simon,

No, I haven't yet. Mine went down too, a few months ago but they repaired it under warranty. It sounds like your having the same problem as I did. I use mine with a SDRPlay and your software, actually. I like yours better than HDSDR because I can't seem to change the bandwidth on HDSDR.

Terry, KT7DX

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To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

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Terry, KT7DX

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311. Re: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2015-09-23 11:52:15 UTC
From: Alberto I2PHD
Topic: 303 Message: 311

On 9/23/2015 3:40 AM, 'Terry Palmersheim' kc7ldp@... [pixel_loop] wrote:

> /I can't seem to change the bandwidth on HDSDR./

http://www.sdradio.eu/public/hdsdr_bw.jpg

--
/*73 Alberto I2PHD*
Credo Ut Intelligam

/

312. Re: Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-10-07 20:25:01 UTC
From: shansen@...
Topic: 304 Message: 312

I broke down and got the antenna from DXE. It arrived with a dead power injector but that got replaced quickly by Inlogis. So far so good - I can hear all Maine stations (so far) with the antenna aligned more or less E-W. The lower noise floor is nice.

At the moment it's just on a tripod in a convenient, out of the way area in the yard.

Question - all reference to the antenna has disappeared from the Inlogis web site. All that's left is the commercial business info. I found this out this afternoon when I was referring a friend to the site. Woops. Anyone know what's going on?

73, Steve KB1TCE

313. Re: Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-10-07 21:41:06 UTC
From: doug12455@...
Topic: 304 Message: 313

Curious, I checked myself on InLogisInc site and you're indeed correct. Not sure what happened?

-Brian

314. Re: Loop for state/regional 75/80 meter nets (directivity)

Yahoo group: pixel_loop
Date: 2015-10-07 22:19:36 UTC
From: Ron Ron
Topic: 304 Message: 314

I just spoke to InLogis, they are working on the website. According to the person I spoke to they still carry the Pro-1B antenna. If they were to stop carrying the antenna I was thinking that I might purchase a spare amplifier in case I had problems. I am another happy customer using the Pro-1B with a Flex 6500.
RonK2RAS

315. Re: [pixel_loop] Pixel Antenna Question

Yahoo group: pixel_loop
Date: 2015-10-22 16:48:45 UTC
From: esptwo@...
Topic: 220 Message: 315

David,

Ooops, sorry. Just saw your disclaimer notice.

Didn't mean to overstep.

Ed

316. Re: [pixel_loop] Pixel Antenna Question

Yahoo group: pixel_loop
Date: 2015-10-22 16:49:52 UTC
From: esptwo@...
Topic: 220 Message: 316

David,

I seem to be unable to find RF Pro-1B on the sites.

http://inlogisinc.com http://inlogisinc.com/
http://pixel-antennas.com/ http://pixel-antennas.com/

Have things changed again?

Tx,

Ed

317. FS: Spare Loop

Yahoo group: pixel_loop
Date: 2015-10-23 19:19:53 UTC
From: phil-z@...
Topic: 317 Message: 317

When I first put up my Pro 1-B I noticed a slight kink in. It didn't affect performance but I was able to get a replacement from Pixel. It's been gathering dust in my garage for a while and I'd like to move it. I prefer local pickup within 2 hours of Philadelphia but I have the original carton. It could be a spare or someone could build up another loop with an amp and power supply. Can send picture.

Price: $25.00, Estimated shipping $40.00 (oversize carton)

Phil N3ZP

phil-z at comcast dot net

318. RE: [pixel_loop] FS: Spare Loop

Yahoo group: pixel_loop
Date: 2015-10-23 21:49:25 UTC
From: Marty Fitzgerald
Topic: 317 Message: 318

I will buy it. Paypal?

Marty Fitzgerald W5MF

marty@...

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, October 23, 2015 2:20 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] FS: Spare Loop

When I first put up my Pro 1-B I noticed a slight kink in. It didn't affect performance but I was able to get a replacement from Pixel. It's been gathering dust in my garage for a while and I'd like to move it. I prefer local pickup within 2 hours of Philadelphia but I have the original carton. It could be a spare or someone could build up another loop with an amp and power supply. Can send picture.

Price: $25.00, Estimated shipping $40.00 (oversize carton)

Phil N3ZP

phil-z at comcast dot net

319. Re: FS: Spare Loop

Yahoo group: pixel_loop
Date: 2015-10-24 15:14:14 UTC
From: phil-z@...
Topic: 317 Message: 319

Loop is still for sale. Contact off list: phil-z at comcast dot net.

Phil N3ZP

320. Re: FS: Spare Loop

Yahoo group: pixel_loop
Date: 2015-10-25 01:34:26 UTC
From: phil-z@...
Topic: 317 Message: 320

The spare loop has been sold.

Thanks,

Phil N3ZP

321. FS: Pro 1-B Loop complete system

Yahoo group: pixel_loop
Date: 2015-10-28 14:52:43 UTC
From: phil-z@...
Topic: 321 Message: 321

Decided to sell my Pro 1-B System, complete with loop, amplifier, power supply, manual and approximately 75ft of RG-6 coax (as supplied by Pixel), one end of coax will be cut o remove from wall but will send new F-connector.
About 3 years old, in very good condition, works fine but want to try something else.
Pictures available, see my ad on QRZ.com.

Price: $275.00 plus shipping, estimated at $35 to $65.00 depending on distance from Philadelphia.

Contact off list phil-z at comcast dot net

Thanks,

Phil N3ZP

322. Re: FS: Pro 1-B Loop complete system

Yahoo group: pixel_loop
Date: 2015-10-28 19:03:27 UTC
From: phil-z@...
Topic: 321 Message: 322

The Pro 1-B has been sold.

Thanks,

Phil N3ZP

323. Painting the Loop, Oxidation on the Loop Surface

Yahoo group: pixel_loop
Date: 2015-12-03 04:29:49 UTC
From: rs001a@...
Topic: 323 Message: 323

Does anyone know whether painting the Mag Loop will affect it's performance? On a similar note will it help to occasionally use steel wool to remove any oxidation on the loop surface?

Thanks, Ron
K2RAS

324. InLogis (Pixel) Sold to DX Engineering

Yahoo group: pixel_loop
Date: 2015-12-03 18:02:10 UTC
From: rs001a@...
Topic: 324 Message: 324

TALLMADGE, OH (PRWEB) NOVEMBER 20, 2015
Amateur Radio operators have relied on the RF-PRO-1B Active Magnetic Loop Antenna for decades. Now, it is manufactured and sold exclusively by DX Engineering. DX Engineering will also continue to offer all of the service, replacement and repair parts required to keep this antenna in good operating condition.
The DX Engineering Active Magnetic Loop Antenna http://www.prweb.net/Redirect.aspx?id=aHR0cDovL3d3dy5keGVuZ2luZWVyaW5nLmNvbS9wYXJ0cy9pbnMtcmYtcHJvLTFi provides excellent 160-10 meter coverage and has “figure-eight” directivity and rotating capability. Unlike a large Beverage or dipole, this HF receive antenna can be mounted to a rotator, giving operators the ability to null-out unwelcome signals. In fact, it can provide up to 30 dB of rejection when compared to a traditional whip antenna.
By reducing radio frequency interference (RFI), operators are able to better hear the signals they want. That’s a particularly handy feature for Hams dealing with RFI from nearby stations, power lines, or household appliances. Switching bands is easy too, as the antenna requires no manual tuning.
More importantly, the antenna itself is about the size of a hula-hoop—much smaller than similar high-performance receive antennas. This makes the DX Engineering Active Magnetic Loop Antenna an attractive option to HF operators facing space constraints or strict neighborhood antenna restrictions. Its modular construction means that the antenna is easy to install or disassemble for storage. The antenna mounts to a pole or flat vertical surface.
The DX Engineering Active Magnetic Loop Antenna is a receive-only design and comes complete with a low-noise preamp to ensure excellent performance.

DX Engineering
http://www.DXEngineering.com
http://www.prweb.net/Redirect.aspx?id=aHR0cDovL3d3dy5EWEVuZ2luZWVyaW5nLmNvbQ==
1-800-777-0703

325. Re: [pixel_loop] InLogis (Pixel) Sold to DX Engineering

Yahoo group: pixel_loop
Date: 2015-12-03 18:24:19 UTC
From: Chipensaw
Topic: 324 Message: 325

Oh my!

>
> TALLMADGE, OH (PRWEB) NOVEMBER 20, 2015
> Amateur Radio operators have relied on the RF-PRO-1B Active Magnetic Loop Antenna for decades. Now, it is manufactured and sold exclusively by DX Engineering. DX Engineering will also continue to offer all of the service, replacement and repair parts required to keep this antenna in good operating condition.
> The DX Engineering Active Magnetic Loop Antenna provides excellent 160-10 meter coverage and has “figure-eight” directivity and rotating capability. Unlike a large Beverage or dipole, this HF receive antenna can be mounted to a rotator, giving operators the ability to null-out unwelcome signals. In fact, it can provide up to 30 dB of rejection when compared to a traditional whip antenna.
> By reducing radio frequency interference (RFI), operators are able to better hear the signals they want. That’s a particularly handy feature for Hams dealing with RFI from nearby stations, power lines, or household appliances. Switching bands is easy too, as the antenna requires no manual tuning.
> More importantly, the antenna itself is about the size of a hula-hoop—much smaller than similar high-performance receive antennas. This makes the DX Engineering Active Magnetic Loop Antenna an attractive option to HF operators facing space constraints or strict neighborhood antenna restrictions. Its modular construction means that the antenna is easy to install or disassemble for storage. The antenna mounts to a pole or flat vertical surface.
> The DX Engineering Active Magnetic Loop Antenna is a receive-only design and comes complete with a low-noise preamp to ensure excellent performance.
>
> DX Engineering
> http://www.DXEngineering.com
> 1-800-777-0703
>
>
>

326. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2016-01-20 18:41:34 UTC
From: Terry Palmersheim
Topic: 303 Message: 326

Hi, Simon,

I've bought a USB microscope that can see in infrared and ultraviolet (with help from different light sources); as Pixel/ Inlogis uses a conformal coating. Hopefully, I will be able to see through it. Did your US partners find anything?

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Wednesday, September 23, 2015 4:00 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Hi terry,

Thanks for the feedback - I'll have my US partners find out what device is used.

Simon Brown G4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 23 September 2015 02:40
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Simon,

No, I haven't yet. Mine went down too, a few months ago but they repaired it under warranty. It sounds like your having the same problem as I did. I use mine with a SDRPlay and your software, actually. I like yours better than HDSDR because I can't seem to change the bandwidth on HDSDR.

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Tuesday, September 22, 2015 5:45 PM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Terry,

Did you find an answer? Somehow I've 'modified' one of my units, gain is almost 30 dB down so I would like to get a few spares. I'll open it up in a

few days.

Simon Brown G4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 15 August 2015 16:02
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Transistors used in Pro1B

Does anybody know what type of transistors (or MiniCircuits)are used in
the Pro1B preamp?

Terry, KT7DX

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Version: 2016.0.7357 / Virus Database: 4522/11443 - Release Date: 01/20/16

327. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2016-01-21 08:13:36 UTC
From: Simon Brown
Topic: 303 Message: 327

Hi,

1) First Pixel was blown up by me - too much RF floating around.

2) Second Pixel destroyed by Cornish weather - relentless wind and rain forced water in through the top connector as the white gunge (technical term) wasn't applied all the way round on the inside. Water got in, pre-amp turned into an arc-welder. I've opened it up, dried it out and must see if it's now OK.

Episode 2 was disappointing, I just hope the electronics is OK. Quite some water escaped when I opened the unit.

Simon Brown GK4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 20 January 2016 18:42
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Hi, Simon,

I've bought a USB microscope that can see in infrared and ultraviolet (with help from different light sources); as Pixel/ Inlogis uses a conformal coating. Hopefully, I will be able to see through it. Did your US partners find anything?

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Wednesday, September 23, 2015 4:00 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Hi terry,

Thanks for the feedback - I'll have my US partners find out what device is used.

Simon Brown G4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 23 September 2015 02:40
To: pixel_loop@yahoogroups.com

Subject: RE: [pixel_loop] Transistors used in Pro1B

Simon,

No, I haven't yet. Mine went down too, a few months ago but they repaired it under warranty. It sounds like your having the same problem as I did. I use mine with a SDRPlay and your software, actually. I like yours better than HDSDR because I can't seem to change the bandwidth on HDSDR.

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Sent: Tuesday, September 22, 2015 5:45 PM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Terry,

Did you find an answer? Somehow I've 'modified' one of my units, gain is almost 30 dB down so I would like to get a few spares. I'll open it up in a few days.

Simon Brown G4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 15 August 2015 16:02
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Transistors used in Pro1B

Does anybody know what type of transistors (or MiniCircuits)are used in the Pro1B preamp?

Terry, KT7DX

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Version: 2016.0.7357 / Virus Database: 4522/11443 - Release Date: 01/20/16

328. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2016-01-21 08:14:24 UTC
From: Simon Brown
Topic: 303 Message: 328

Oh,

Yes - we determined the device type used in the pre-amp.

Simon Brown GK4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 20 January 2016 18:42
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Hi, Simon,

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Terry, KT7DX

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Sent: Wednesday, September 23, 2015 4:00 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

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Simon Brown G4ELI
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To: pixel_loop@yahoogroups.com
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Terry, KT7DX

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Sent: Tuesday, September 22, 2015 5:45 PM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

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Terry, KT7DX

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Version: 2016.0.7357 / Virus Database: 4522/11443 - Release Date: 01/20/16

329. RE: [pixel_loop] Transistors used in Pro1B

Yahoo group: pixel_loop
Date: 2016-01-21 16:25:38 UTC
From: Terry Palmersheim
Topic: 303 Message: 329

Simon,

OK...what kind of device is it?

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Thursday, January 21, 2016 6:14 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Oh,

Yes - we determined the device type used in the pre-amp.

Simon Brown GK4ELI
http://sdr-radio.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 20 January 2016 18:42
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

Hi, Simon,

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Terry, KT7DX

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Sent: Wednesday, September 23, 2015 4:00 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

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Sent: 23 September 2015 02:40
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

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To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors used in Pro1B

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Terry, KT7DX

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Version: 2016.0.7357 / Virus Database: 4522/11452 - Release Date: 01/21/16

330. Additional LNA for Pixel Antenna

Yahoo group: pixel_loop
Date: 2016-02-07 03:59:53 UTC
From: rs001a@...
Topic: 330 Message: 330

FYI, I took a small 30db LNA amplifier and placed it before my radio along with a high-pass filter. It improved the reception beyond the standard Pixel preamp (not just amplifying the noise level). I am running a FlexRadio, so the radio has a great front-end, and the Pixel is so quiet that the extra boost improved performance. Other hams might consider testing a similar configuration. The total cost of the mod was about $100.

Ron
K2RAS

331. RE: [pixel_loop] Additional LNA for Pixel Antenna

Yahoo group: pixel_loop
Date: 2016-02-07 04:14:37 UTC
From: Terry Palmersheim
Topic: 330 Message: 331

Ron,

What type of LNA did you use? I am installing the injector unit into a new, larger cabinet to keep it more stable and also install SO-259 jacks instead in the F connectors. This would be a perfect time to also install an LNA to it.

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Sunday, February 07, 2016 4:00 AM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Additional LNA for Pixel Antenna

FYI, I took a small 30db LNA amplifier and placed it before my radio along with a high-pass filter. It improved the reception beyond the standard Pixel preamp (not just amplifying the noise level). I am running a FlexRadio, so the radio has a great front-end, and the Pixel is so quiet that the extra boost improved performance. Other hams might consider testing a similar configuration. The total cost of the mod was about $100.

Ron

K2RAS

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Version: 2016.0.7357 / Virus Database: 4522/11565 - Release Date: 02/06/16

332. Re: [pixel_loop] Additional LNA for Pixel Antenna

Yahoo group: pixel_loop
Date: 2016-02-07 05:00:02 UTC
From: Joe Pankow
Topic: 330 Message: 332

Ron,

Also what was the purpose of the high-pass filter? Removing AM broadcast interference?

Joe W6JHP

On Sat, Feb 6, 2016 at 8:14 PM, 'Terry Palmersheim' kc7ldp@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

>
>
> Ron,
>
>
>
> What type of LNA did you use? I am installing the injector unit into a
> new, larger cabinet to keep it more stable and also install SO-259 jacks
> instead in the F connectors. This would be a perfect time to also install
> an LNA to it.
>
>
>
> Terry, KT7DX
>
>
>
>
> ----------
>
> *From:* pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
> *Sent:* Sunday, February 07, 2016 4:00 AM
> *To:* pixel_loop@yahoogroups.com
> *Subject:* [pixel_loop] Additional LNA for Pixel Antenna
>
>
>
>
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> FYI, I took a small 30db LNA amplifier and placed it before my radio along
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>
>
> Ron
>
> K2RAS
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> No virus found in this message.
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> Version: 2016.0.7357 / Virus Database: 4522/11565 - Release Date: 02/06/16
>
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333. Re: [pixel_loop] Additional LNA for Pixel Antenna

Yahoo group: pixel_loop
Date: 2016-02-07 17:08:11 UTC
From: Ron Ron
Topic: 330 Message: 333

I used this LNA LNA for HF It seems to have good S/N characteristics but I added a high pass filter to remove some of the AM activity which appeared. Take a careful look at the specs on the page, the LNA has a number of changes you can make to it and it can be ordered with or without SMA connectors. I ordered the unit without the connectors and placed the LNA and filter in a metal enclosure and used BNC connectors.
Ron

| |
| | | | | | | |
| LNA for HFFinally the LNA4HF is ready after the holidays break. After the initial shipment we have the firsts batch ready for delivery. |
| |
| View on lna4hf.blogspot.com | Preview by Yahoo |
| |
| |

On Saturday, February 6, 2016 10:00 PM, "Joe Pankow falcongsr@... [pixel_loop]" <pixel_loop@yahoogroups.com> wrote:

  Ron,
Also what was the purpose of the high-pass filter? Removing AM broadcast interference?
Joe W6JHP
On Sat, Feb 6, 2016 at 8:14 PM, 'Terry Palmersheim' kc7ldp@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

  Ron, What type of LNA did you use? I aminstalling the injector unit into a new, larger cabinet to keep it more stableand also install SO-259 jacks instead in the F connectors. This would be aperfect time to also install an LNA to it. Terry, KT7DX From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Sunday, February 07, 20164:00 AM
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Version: 2016.0.7357 / Virus Database: 4522/11565 - Release Date: 02/06/16

334. Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-18 17:25:54 UTC
From: rs001a@...
Topic: 334 Message: 334

FYI, I tried reducing the voltage from 20VDC to 12VDC to see if performance on the Pixel antenna changed, and it did not!

I run my radio off batteries and solar power and spent significant effort getting a boost circuit with low noise. Interestingly with over 100ft of wire to the antenna the preamp did not exit any loss of gain until the source voltage dropped to around 11V. I presume the developers of the Pixel wanted to make sure that the voltage loss to the antenna did not affect performance, but 20V seems like it was over designed.

Bottom line, it is safe and effective to run the antenna directly off battery voltage.

Ron
K2RAS

335. Re: Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-18 17:58:06 UTC
From: Chipensaw
Topic: 334 Message: 335

Thanks you for the info. This is a game changer for a lot of users.

Jay
K7GFH

336. Re: Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-19 00:58:30 UTC
From: rs001a@...
Topic: 334 Message: 336

Steve, I looked carefully at the s/n and gain as I dropped the voltage. I could not see any discernible change until the voltage was close to 11 volts. Are you sure that a voltage somewhat below 13.6V will affect dynamic range, because I cannot see it.

Thanks, Ron

337. Re: Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-19 02:30:48 UTC
From: David W Mitchell
Topic: 334 Message: 337

It is often engineering practice to supply a higher voltage from the power supply and to build in an internal regulator circuit that supplies the final necessary voltages to each of the components within the circuit.
I would guess that is also the case with the Pixel LNA circuitry, but I could be incorrect in my supposition.

David W Mitchell, "O-B-1"

338. Re: [pixel_loop] Re: Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-19 08:38:57 UTC
From: kkyahoo
Topic: 334 Message: 338

Ron,

You could do a quick and dirty on the dynamic range issue by listening to the intermod signals of 2 broadcast stations and see what happens when you reduce the voltage. For example if you have two local and very strong signals on 1000kHz and 1500kHz , the 3rd order intermods would be on 2000kHz and 500kHz. Listen on those frequencies as you wind the volts down and see if the intermod product increases.

Whatever you find I would always run the device on the correct voltage.

Kevin

----- Original Message -----
From: rs001a@... [pixel_loop]
To: pixel_loop@yahoogroups.com
Sent: Friday, February 19, 2016 12:58 AM
Subject: [pixel_loop] Re: Reducing Voltage to Pixel Preamp

Steve, I looked carefully at the s/n and gain as I dropped the voltage. I could not see any discernible change until the voltage was close to 11 volts. Are you sure that a voltage somewhat below 13.6V will affect dynamic range, because I cannot see it.

Thanks, Ron

339. Re: Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-19 19:03:32 UTC
From: jhill_81@...
Topic: 334 Message: 339

with lower supply voltage to the preamp you might see more clipping on strong signals ?
but i dont think any signals would be more then the supply voltage....
thanks for testing this , I also would like to run my station on battery power at times.
I would guess the supply voltage was picked to reach a spec on how long a run of rg-6 run could be used.
if you only need 30ft of coax then you might not need all the extra supply volts.

ko6kL

340. loop location in yard....

Yahoo group: pixel_loop
Date: 2016-02-19 19:17:24 UTC
From: jhill_81@...
Topic: 340 Message: 340
Attachments: 2 described; binary payloads are missing from this source WARC

hi im looking for some loop placment ideas here ....

I have full size wire antennas for all the ham bands and so i guess
iv yet to find much use for my pixel loop and have moved it 2 times now...
luckily the 1 to 4 mhz QRN has not been to bad since i got the loop installed.
but i did find some time on 80 meters that it would help.

loop signals are often very weak (vs the dipoles)
could the brick fence and tile roof be a problem next door ?
The masonry block fence seems to block out local static on my hand held shortwave untill i hold it up over the height of the fence.

could the loop be mounted up higher like 20ft ? would this change the received (dx) low angle signals?

loop is on a pole about 10ft high now with rg6 running overhead about 7ft off the ground towards the house...
is that a problem ?

you can see my antenna yard map on http://www.qrz.com

Thansks
Ko6kL

2 photo's attached.
direct reply jhill_81@yahoo.com

341. Re: [pixel_loop] Re: Reducing Voltage to Pixel Preamp

Yahoo group: pixel_loop
Date: 2016-02-21 14:42:56 UTC
From: JRTOW3RD@...
Topic: 334 Message: 341

When I bought my Pixel Pro-1a from them (Sale - $350 then shipped - the Pro-1b was coming out.), I was told that they would sell me a 12V power inserter ($15, I think.). I asked how it would work that far below the rated 20V and was told that it would still work quite well, but IM would suffer. When I later asked them if I could upgrade to the Pro-1b, they had me send them a picture of my antenna installation. I did - and they said I had the latest pre-amp but could upgrade to the current loop for $150 inc a 12V inserter and s/h. I never did, as the loop enhancements only improved performance >25 MHz (I still stay mostly between LW and the tropical bands.).

The problem with making a power inserter is the 10mH RFC - it must pass 50-60 mA constantly - with low resistance. I'll get to it one day... as for now, my loop is in the walkup attic (See photo.) of my garden home, where we have lived for >2.5 yr. I have to turn it off when not in use in the summer as it gets warm up there. I have a 17 A-hr 12V SLA for emergency power, in the form of a 'Jump Start', so I could DX when the power is out - but that hasn't happened here due to the buried utilities. My loop was an extravagance - but most worthwhile.

John

342. Loop Performance Over Time

Yahoo group: pixel_loop
Date: 2016-04-08 22:40:09 UTC
From: rs001a@...
Topic: 342 Message: 342

Does anyone know whether oxidation on the loop surface reduces performance over time? Would it also be beneficial to open the loop and clean any connections once the loop has been in the weather for several years?

Thanks, Ron
K2RAS

343. Pixel Pro-1B and MFJ-1707

Yahoo group: pixel_loop
Date: 2016-05-03 21:24:59 UTC
From: chuckdillon@...
Topic: 343 Message: 343

I have a transceiver that does not have a RX only port. Will the MFJ-1707 switch fast enough to protect the Pixel Pro-1B from the TX energy of my transceiver?

Thanks in advance,

Chuck

344. Re: [pixel_loop] Pixel Pro-1B and MFJ-1707

Yahoo group: pixel_loop
Date: 2016-05-04 17:43:52 UTC
From: Akrovers
Topic: 343 Message: 344

No it is not, don't trust the MFJ switch, I smoked my loop amp with one, maybe look at the dx engineering switch?

Matt

Sent from my iPhone

> On May 3, 2016, at 1:24 PM, chuckdillon@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:
>
>
> I have a transceiver that does not have a RX only port. Will the MFJ-1707 switch fast enough to protect the Pixel Pro-1B from the TX energy of my transceiver?
>
>
>
> Thanks in advance,
>
> Chuck
>
>
>
>

345. Re: [pixel_loop] Pixel Pro-1B and MFJ-1707

Yahoo group: pixel_loop
Date: 2016-05-04 17:48:01 UTC
From: Steve
Topic: 343 Message: 345

I've been using a Pixel Loop with my FT-950 and a DXE RTR-1A for nearly
a year. Flawless.

Steve KB1TCE

On 05/04/2016 01:43 PM, Akrovers akrovers@... [pixel_loop] wrote:
>
> No it is not, don't trust the MFJ switch, I smoked my loop amp with
> one, maybe look at the dx engineering switch?
>
> Matt
>
> Sent from my iPhone
>
> On May 3, 2016, at 1:24 PM, chuckdillon@...
> <mailto:chuckdillon@...> [pixel_loop] <pixel_loop@yahoogroups.com
> <mailto:pixel_loop@yahoogroups.com>> wrote:
>
>>
>>
>>
>> I have a transceiver that does not have a RX only port. Will the
>> MFJ-1707 switch fast enough to protect the Pixel Pro-1B from the TX
>> energy of my transceiver?
>>
>>
>> Thanks in advance,
>>
>> Chuck
>>
>>
>

346. 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-26 13:45:29 UTC
From: kabelectro@...
Topic: 346 Message: 346

Hi, is anyone logging the woodpecker signal at 100 khz? I hear is radomly in NJ USA sometimes for a week at a time, then it goes silent. Also, you can hear it in Europe on websdr.org not sure if it is from the same origination point or not. I wonder where this originates from?

347. Re: [pixel_loop] 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-26 14:19:59 UTC
From: Alberto I2PHD
Topic: 346 Message: 347

On 6/26/2016 3:45 PM, kabelectro@... [pixel_loop] wrote:

> Hi, is anyone logging the woodpecker signal at 100 khz? I hear is radomly in NJ USA sometimes for a week at a time,
> then it goes silent. Also, you can hear it in Europe on websdr.org not sure if it is from the same origination point
> or not. I wonder where this originates from?

It isn't a woodpecker radar signal. It is a perfectly legitimate signal, originating from the Loran (Long Range
Navigation Aid) stations
around the world.

Google for "Loran" and you will have all the info.

--
/*73 Alberto I2PHD*
Credo Ut Intelligam/

348. Re: [pixel_loop] 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-26 14:25:36 UTC
From: Bob Betts
Topic: 346 Message: 348

I haven't heard the "Woodpecker" in some time, but I understand that they reactivate it occasionally. 100KHz seems low, since it was usually heard in the International broadast bands. The original woodpecker was the Russian OTH (Over the Horizon) radar. Back in the 1990s it was all over the Ham 80-meter band. I wonder if it's those same guys...

Bob, N1KPR
 http://www.bobsamerica.com http://www.youtube.com/n1kpr

Engineering: Where Enigma meets Paradox

From: "kabelectro@... [pixel_loop]" <pixel_loop@yahoogroups.com>
To: pixel_loop@yahoogroups.com
Sent: Sunday, June 26, 2016 9:45 AM
Subject: [pixel_loop] 100khz woodpecker

  Hi, is anyone logging the woodpecker signal at 100 khz? I hear is radomly in NJ USA sometimes for a week at a time, then it goes silent. Also, you can hear it in Europe on websdr.org not sure if it is from the same origination point or not. I wonder where this originates from?

349. Re: [pixel_loop] 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-26 14:46:32 UTC
From: Bob Betts
Topic: 346 Message: 349

Alberto:I believe that LORAN (LF) was decommissioned several years ago. I used to use it as an LF marker when repairing receivers...for signal strength (at my location) and freq accuracy. But it's gone now.

Bob, N1KPR
 http://www.bobsamerica.com http://www.youtube.com/n1kpr

Engineering: Where Enigma meets Paradox

From: "Alberto I2PHD i2phd@weaksignals.com [pixel_loop]" <pixel_loop@yahoogroups.com>
To: pixel_loop@yahoogroups.com
Sent: Sunday, June 26, 2016 10:19 AM
Subject: Re: [pixel_loop] 100khz woodpecker

  On 6/26/2016 3:45 PM, kabelectro@... [pixel_loop] wrote:

Hi, is anyone logging the woodpecker signal at 100 khz? I hear is radomly in NJ USA sometimes for a week at a time, then it goes silent. Also, you can hear it in Europe on websdr.org not sure if it is from the same origination point or not. I wonder where this originates from?

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around the world.

Google for "Loran" and you will have all the info.

--
73 Alberto I2PHD
Credo Ut Intelligam

350. Re: [pixel_loop] 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-26 15:56:04 UTC
From: Alberto I2PHD
Topic: 346 Message: 350

On 6/26/2016 4:46 PM, Bob Betts rwbetts@... [pixel_loop] wrote:
>
> /Alberto:/
> /I believe that LORAN (LF) was decommissioned several years ago. I used to use it as an LF marker
> when repairing receivers...for signal strength (at my location) and freq accuracy. But it's gone now.
> /
> /
> /
> /Bob, N1KPR/

Bob,

yes, I am aware that Loran is (was) decommissioned. But sometimes I read on various lists that occasionally
there still are transmissions, don't know to what purpose. Maybe it was one of those times...

--
/*73 Alberto I2PHD*
Credo Ut Intelligam/

351. Re: [pixel_loop] 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-26 20:12:47 UTC
From: kevin kabelectro
Topic: 346 Message: 351

LORAN-C General Information This talks about loran termination. But there is talk of some new system called E-Loran that may com back to co exist with GPS. Maybe these are experimental broadcasts. Either way, Good to get information on it, and I only thought it was the woodpecker because my kenwood receiver has a noise blanker explicitly for the woodpecker and it works quite well on this signal.

|
| |
LORAN-C General Information
USCG Navigation Center | |

|

On Sunday, June 26, 2016 11:56 AM, "Alberto I2PHD i2phd@... [pixel_loop]" <pixel_loop@yahoogroups.com> wrote:

  On 6/26/2016 4:46 PM, Bob Betts rwbetts@sbcglobal.net [pixel_loop] wrote:

Alberto: I believe that LORAN (LF) was decommissioned several years ago. I used to use it as an LF marker
when repairing receivers...for signal strength (at my location) and freq accuracy. But it's gone now.

Bob, N1KPR

Bob,

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there still are transmissions, don't know to what purpose. Maybe it was one of those times...

--
73 Alberto I2PHD
Credo Ut Intelligam

352. Re: [pixel_loop] 100khz woodpecker

Yahoo group: pixel_loop
Date: 2016-06-28 12:44:50 UTC
From: JRTOW3RD@...
Topic: 346 Message: 352

The original "Russian Woodpecker", or "Over the Horizon Backscatter" radar, was located in the Ukraine close to it's power source - the Chernobyl nuclear reactor. When a reactor was lost due to a horrific accident, other units continued to function. The woodpecker finally went off something like two decades ago and the facility fell into disrepair (It's within the Chernobyl 'exclusion zone'.). A German lass, 'Bionerd23', actually a nuclear medicine professional, has chronicled her trips to Chernobyl, including the 'woodpecker' - even climbing the huge antenna array - on u-tube (Search her name there.).

353. Wellbrook Active Antenna

Yahoo group: pixel_loop
Date: 2016-09-26 18:32:55 UTC
From: kl7rs@...
Topic: 353 Message: 353

I am also posting this on the ham antennas group. I'm sorry if that's a bad idea....

I was wondering if any of you have any experience with the Wellbrook active antennas and can help answer a few questions.

1) I understand they are primarily used in noisy environments - to reduce electrical noise. As far as I know, I really don't have a lot of man made noise. I do have static crashes and stuff like that on 160 and 80m though. Will this type of antenna help reduce static crashes too?

2) Currently my primary antenna for 160 and 80m is an Inverted L. The L is a tad noisy but I have been able to have QSOs from Phoenix to Washington state. It was pretty hard to pull the Washington state signal out of the noise, but I was able to do it. Can I expect an active antenna like this to give me better receive signals in situations like this?

3) I'm currently living in a darn HOA and on a fairly small lot. My back yard is only about 30 feet deep and about 70 feet wide. The back yard has a 6 foot block wall around it and I have a large tree in the neighbor's yard to the east of me. I'm wondering if an active antenna would work very well with all of the walls and tree close by. I might be able to get somewhere between 10 and 15 feet away but that's about the best I could do. Will this still work ok?

4) Besides an active loop, Is there something better for receiving on 160 through 20m that is smaller than my Inverted L or my ZS6BKW but might outperform them on receive?

Norm - W7CK

354. Re: Wellbrook Active Antenna

Yahoo group: pixel_loop
Date: 2016-09-30 08:50:57 UTC
From: vk5zuc@...
Topic: 353 Message: 354

Norm,
In a suburban area the Pixel loop is a great low noise low band antenna including 2200m and 630m.
On 160m I have S7 plus noise on an inverted L.
I have it on a rotator but having found the best orientation it rarely moves.
Works close to the ground too.

If you are a constructor this can be made for similar cost.

http://members.iinet.net.au/~sadler@netspace.net.au/tmla.html

Andrew VK5CV

355. Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-01-02 04:31:47 UTC
From: chipensaw@...
Topic: 355 Message: 355

Hello all and Happy New Year,

Curious if anyone here has experience troubleshooting the preamp on the Pixel Pro 1B? I have verified 20.2 volts at the input of the preamp. I also have inspected the connections inside the loop itself but unfortunately when the radio is connected and antenna is powered on I cannot receive even the strongest signals that I see on my dipole. Disconnecting the coax from the input of the preamp actually works better. I am able to receive stations like WWV, coax only. The preamp is isolated from the antenna via the plastic bushings, no issues that I can see. Curious about any troubleshooting I might be able to accomplish.

Thank you,

Jay

356. Re: [pixel_loop] Digest Number 140

Yahoo group: pixel_loop
Date: 2017-01-02 22:00:15 UTC
From: Mr B r a d
Topic: 356 Message: 356

i think the preamp should be slightlywarm from the voltage regulator ??perhaps you could check for that?

my loop isnt picking up stuff very welland i wonder if the masonry brick block wall near by could be blocking the signals ???anyone ?bradko6kL

From: "pixel_loop@yahoogroups.com" <pixel_loop@yahoogroups.com>
To: pixel_loop@yahoogroups.com
Sent: Monday, January 2, 2017 12:21 AM
Subject: [pixel_loop] Digest Number 140

<!--#yiv4922143185 #yiv4922143185ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv4922143185 #yiv4922143185ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv4922143185 #yiv4922143185ygrp-mkp #yiv4922143185hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv4922143185 #yiv4922143185ygrp-mkp #yiv4922143185ads {margin-bottom:10px;}#yiv4922143185 #yiv4922143185ygrp-mkp .yiv4922143185ad {padding:0 0;}#yiv4922143185 #yiv4922143185ygrp-mkp .yiv4922143185ad p {margin:0;}#yiv4922143185 #yiv4922143185ygrp-mkp .yiv4922143185ad a {color:#0000ff;text-decoration:none;}#yiv4922143185 #yiv4922143185ygrp-sponsor #yiv4922143185ygrp-lc {font-family:Arial;}#yiv4922143185 #yiv4922143185ygrp-sponsor #yiv4922143185ygrp-lc #yiv4922143185hd {margin:10px 0px;font-weight:700;font-size:78%;line-height:122%;}#yiv4922143185 #yiv4922143185ygrp-sponsor #yiv4922143185ygrp-lc .yiv4922143185ad {margin-bottom:10px;padding:0 0;}--> Pixel magnetic loop antenna Pixel magnetic loop antenna Group
1 Message
Digest #140 1 Troubleshooting Preamp by jay_hendershott
Message

1

Troubleshooting Preamp

Sun Jan 1, 2017 8:31 pm (PST) . Posted by:

jay_hendershott
Hello all and Happy New Year,

Curious if anyone here has experience troubleshooting the preamp on the Pixel Pro 1B? I have verified 20.2 volts at the input of the preamp. I also have inspected the connections inside the loop itself but unfortunately when the radio is connected and antenna is powered on I cannot receive even the strongest signals that I see on my dipole. Disconnecting the coax from the input of the preamp actually works better. I am able to receive stations like WWV, coax only. The preamp is isolated from the antenna via the plastic bushings, no issues that I can see. Curious about any troubleshooting I might be able to accomplish.

Thank you,

Jay Reply to sender . Reply to group . Reply via Web Post . All Messages (1) . Top ^ Visit Your Group
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357. Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-01-02 22:25:06 UTC
From: disapa
Topic: 355 Message: 357

hello all, I had a low signal problem with my loop as well. It worked but not like normal. I took a short length of quad shield and tried it. It worked fine. It ended up being my old quad shied coax. Replaced it with new coax and it now works like new again.. Dion

358. Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-01-05 02:45:18 UTC
From: john100984@...
Topic: 355 Message: 358

Good evening Jay,
I just fixed a low sensitivity problem with my antenna, it actually received better with it turned off! I removed the entire antenna, ended up taking the preamp apart and found the input F connector (the one on the top that connects to the loop) was rusted and broken so it wasn't making contact with the loop. I don't have the 'B' model but I assume that part is the same so it may be worthwhile to check. I had another F connector with a short piece of RG-174 crimped to it so it was an easy thing to remove the broken connector and replace it with that. Sealed the preamp back up and tested it with the antenna inside the house and it worked like a champ again. I'm kind of surprised they used such a cheap connector inside the preamp, the bottom connector appeared to be OK though, so who knows.

Hope this helps,
John

359. Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-01-05 04:42:07 UTC
From: chipensaw@...
Topic: 355 Message: 359

Thank you John,

Pixel / DX Engineering got back to me today. Asked me to insert a 2 foot long piece of wire into the center conductor of the input side to the preamp. They asked me to tune to a local AM station and note the signal strength with no input to the preamp then insert the wire and note if their was a signal increase. No increase indicates a failed preamp which is the results I came too. Per your suggestions I also probed the lead to the F connector at the circuit board with no change in signal strength. I will be sending back this and my original preamp which failed roughly 1.5 years ago. I wish DX Engineering could provide a bit more in depth troubleshooting but I also understand the time needed for such service. Thank you all for your input and suggestions.

Jay

360. Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-01-05 04:45:18 UTC
From: chipensaw@...
Topic: 355 Message: 360

Thank you Dion for your suggestions. No luck even with new coax. See my response below to John's suggestion. I will be sending back my preamp for repair.

Jay

361. Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-01-15 12:00:36 UTC
From: skiptalker921@...
Topic: 355 Message: 361

Jay Was it real cold out when you had these issues? I had a similar problem but was lucky enough to have 2 preamps and 2 loops. Whenever it was around 20 degrees or less outside mine would loose all signals and when I turned it off they came up somewhat probably because of the 150 foot cable. I ended up bringing the whole thing in my house and left it sit for a few hours then installed the other preamp and took it all back out and it worked fine. Within 2 hours of being in 15 degrees the same thing happened. I checked the center of the coax to make sure the center conductor had not shrunk from the cold and that was fine. The next thing I did was swap the loop out with the same 1 foot cable piece and original preamp and I have not had an issue since so something in my loop was having issues when it got real cold. When I brought everything in for those few hours I guess the loop warmed up enough to work for a while again. I talked to DX Engineering and explained the whole testing process and they had me send the loop only back. This was 2 weeks ago and I have not heard anything back yet.

Steve

362. Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-10-19 21:11:52 UTC
From: kl7rs@...
Topic: 355 Message: 362

Has anyone here tried to build a low noise preamp similar to the one used in the Pixel loop? I can't imagine why such a preamp would cost this much.

Norm - W7CK

363. Re: [pixel_loop] Re: Troubleshooting Preamp

Yahoo group: pixel_loop
Date: 2017-10-19 22:16:36 UTC
From: Joe Pankow
Topic: 355 Message: 363

Here's an example of a predecessor to the preamp used in these antennas:
https://www.okdxf.eu/lankford/Norton-2N5109.pdf

On Thu, Oct 19, 2017 at 2:11 PM, kl7rs@... [pixel_loop] <
pixel_loop@yahoogroups.com> wrote:

>
>
> Has anyone here tried to build a low noise preamp similar to the one used
> in the Pixel loop? I can't imagine why such a preamp would cost this much.
>
> Norm - W7CK
>
>

364. Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-21 14:40:31 UTC
From: malet-bernard@...
Topic: 364 Message: 364

Hello to all members of this Group
Browse the questions and answers of this group of users, about this wonderful loop antenna that is Pixel RF Pro 1B

It is very unpleasant to note that on many questions asked, they usually remain unfinished or very evasive, it is strange this phenomenon of vagueness.

Example: Still unanswered transistors placed in the preamplifier of the Pixel created by the awesome K8ZOA Jack Smith, founder of Clifton Laboratories who was a great developer of various Norton amplifiers and many other essential materials to improve the listening.
I deeply regret his death so young.

All products created by K8ZOA and its company Clifton Laboratories were retroceded in April 2017 to DX Engineering. This company has reactivated some of these famous products including the Pixel Loop. It should be noted that DX Engineering does not seem to benefit from its notoriety to display prices that seem very reasonable and also make the effort to have spare parts and assistance.

I did not take enough time to see if there were other Jack products in their range!

To all the users who have dismantled the preamplifier box and necessarily removed the chillers to read the references of these transistors my question is:
What are the exact references of the transistors fitted to the RF-Pro-1B amplifier?

Nota: Do not try to find out again and again the warm water trying to place a new theme regarding a new comparison with Wellbrook in this group, as this has already been done back and forth.
It is rather better to join the group concerned by this specific brand..

An unconditional user of remarkable products of K8ZOA Jack Smith.

Looking forward to reading you dear friends of Pixel Loop Group and getting this answer.

Best regards

Bernard of France

365. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-22 00:47:12 UTC
From: Terry Palmersheim
Topic: 364 Message: 365

Per Simon Brown, HB9DRV, the transistors used in the Pixel RF-Pro1B are BFQ18A's. They can be bought at DigiKey for about US 0.75 each. Their P/N is 568-6198-1-ND. No mystery here.

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Saturday, October 21, 2017 2:41 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

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366. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-22 06:30:22 UTC
From: MALET Bernard
Topic: 364 Message: 366

Dear Terry
Thank you for your quick response and your valuable information
Taken note of transistors Q101 and Q102 which are BFQ18A
What are the components attached and located under the chillers
Thank you in advance for your future answer

Best regards

Bernard

De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Envoyé : dimanche 22 octobre 2017 02:47
À : pixel_loop@yahoogroups.com
Objet : RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

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Bernard of France

367. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-22 06:48:34 UTC
From: Terry Palmersheim
Topic: 364 Message: 367

Hi, Bernard, not really sure what you mean by ‘chillers’; heat sinks? I am in the process of rebuilding the controller/ injector unit and also adding a LNA4HF pre-amp down at the loop input. This with be with adjustable gain and also be able to be switched in and out of the circuit. The LNA4HF can be had at:

http://lna4hf.blogspot.com/

All specs are there.

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Sunday, October 22, 2017 6:30 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?
Importance: High

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De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
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Nota: Do not try to find out again and again the warm water trying to place a new theme regarding a new comparison with Wellbrook in this group, as this has already been done back and forth.
It is rather better to join the group concerned by this specific brand..

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Looking forward to reading you dear friends of Pixel Loop Group and getting this answer.

Best regards

Bernard of France

368. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-22 06:49:48 UTC
From: Simon Brown
Topic: 364 Message: 368

Bernard,

Maybe DX Engineering is unaware of this group?

Simon Brown, G4ELI

<http://www.dxgalaxy.com/> www.dxgalaxy.com
<http://www.sdr-radio.com/> www.sdr-radio.com
<http://www.sdr-satellites.com> www.sdr-satellites.com

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: 21 October 2017 15:41
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

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369. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-22 07:53:10 UTC
From: MALET Bernard
Topic: 364 Message: 369

It's possible

Web site: <https://www.dxengineering.com/search/product-line/dx-engineering-rf-pro-loop-replacement-components?autoview=SKU&keyword=Loop%20Antenna&sortby=BestKeywordMatch&sortorder=Ascending> https://www.dxengineering.com/search/product-line/dx-engineering-rf-pro-loop-replacement-components?autoview=SKU&keyword=Loop%20Antenna&sortby=BestKeywordMatch&sortorder=Ascending

Best regards

Bernard

De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Envoyé : dimanche 22 octobre 2017 08:50
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Objet : RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

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370. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-22 08:31:51 UTC
From: MALET Bernard
Topic: 364 Message: 370
Attachments: 2 described; binary payloads are missing from this source WARC

Dear Terry,

Thank you for your reply
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Importance: High

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Envoyé : dimanche 22 octobre 2017 02:47

À : pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com>
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Yahoo group: pixel_loop
Date: 2017-10-22 08:50:24 UTC
From: Terry Palmersheim
Topic: 364 Message: 371
Attachments: 2 described; binary payloads are missing from this source WARC

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Sent: Sunday, October 22, 2017 8:32 AM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?
Importance: High

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Yahoo group: pixel_loop
Date: 2017-10-22 09:08:32 UTC
From: MALET Bernard
Topic: 364 Message: 372
Attachments: 2 described; binary payloads are missing from this source WARC

Just a few tests and alignments of this good and efficient JRC NRD-515 receiver

Bernard

De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Envoyé : dimanche 22 octobre 2017 10:50
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Objet : RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

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Yahoo group: pixel_loop
Date: 2017-10-22 09:30:13 UTC
From: Terry Palmersheim
Topic: 364 Message: 373
Attachments: 2 described; binary payloads are missing from this source WARC

Let me know if you want to sell it. I had the JRC NRD-525 which was an excellent receiver. Personally, as an avid DXer, my best receiver was the AOR AR-7030 with all options installed; all filter slots were full with Collins and Murata filters. That was before I got my Extra class license. The rig I use now is an Icom IC-7410 with all roofing filters, running into an Ameritron AL811 amp and a GAP Titan DX antenna.

What ever happened to Jim Thorne’s AR-7070 receiver?

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Sunday, October 22, 2017 9:09 AM
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Subject: RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?
Importance: High

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Date: 2017-10-22 14:17:02 UTC
From: MALET Bernard
Topic: 364 Message: 374
Attachments: 2 described; binary payloads are missing from this source WARC

Terry

This is off topic of this group, send me your email address to continue our conversation
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Taken note of transistors Q101 and Q102 which are BFQ18A
What are the components attached and located under the chillers
Thank you in advance for your future answer

Best regards

Bernard

De : pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com>
[mailto:pixel_loop@yahoogroups.com]
Envoyé : dimanche 22 octobre 2017 02:47
À : pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com>
Objet : RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Per Simon Brown, HB9DRV, the transistors used in the Pixel RF-Pro1B are BFQ18A’s. They can be bought at DigiKey for about US 0.75 each. Their P/N is 568-6198-1-ND. No mystery here.

Terry, KT7DX

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An unconditional user of remarkable products of K8ZOA Jack Smith.

Looking forward to reading you dear friends of Pixel Loop Group and getting this answer.

Best regards

Bernard of France

375. For Sale: RF-PRO-1B

Yahoo group: pixel_loop
Date: 2017-10-23 00:50:56 UTC
From: bradld@...
Topic: 375 Message: 375

I have a PRO-1B for sle for $250 local pickup in NH or buyer is welcome to pay shipping which can be slightly expensive due to the size of the loop. Feel free to message me if interested. Selling to USA only.

376. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-26 16:15:41 UTC
From: Terry Palmersheim
Topic: 364 Message: 376
Attachments: 2 described; binary payloads are missing from this source WARC

Sorry, Bernard, I was out of town for a few days. My email is good on QRZ.com.

Terry, KT7DX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Sunday, October 22, 2017 2:17 PM
To: pixel_loop@yahoogroups.com
Subject: RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?
Importance: High

Terry

This is off topic of this group, send me your email address to continue our conversation
Bernard

De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Envoyé : dimanche 22 octobre 2017 10:50
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Thank you for your reply
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2 x heat sinks black with 2 x 3 cooling fins fixed with screws and nuts

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Yahoo group: pixel_loop
Date: 2017-10-26 22:31:48 UTC
From: MALET Bernard
Topic: 364 Message: 377
Attachments: 2 described; binary payloads are missing from this source WARC

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De : pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Envoyé : jeudi 26 octobre 2017 18:16
À : pixel_loop@yahoogroups.com
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Yahoo group: pixel_loop
Date: 2017-10-27 01:18:21 UTC
From: Terry Palmersheim
Topic: 364 Message: 378
Attachments: 2 described; binary payloads are missing from this source WARC

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Kc7ldp (at)q.com

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379. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-27 08:48:23 UTC
From: malet-bernard@...
Topic: 364 Message: 379
Attachments: 1 described; binary payloads are missing from this source WARC

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380. Re: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-27 14:01:02 UTC
From: Alberto I2PHD
Topic: 364 Message: 380

On 10/27/2017 3:18 AM, 'Terry Palmersheim' kc7ldp@... [pixel_loop] wrote:

Sorry, did not think about that. It is:

Kc7ldp (at)q.com

Terry, KT7DX

--
73 Alberto I2PHD
Credo Ut Intelligam

381. Re: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier?

Yahoo group: pixel_loop
Date: 2017-10-27 15:34:08 UTC
From: Cecil Bayona
Topic: 364 Message: 381

And if you like the information in the message you can keep a personal
copy for future reference.

On 10/27/2017 9:01 AM, Alberto I2PHD i2phd@... [pixel_loop]
wrote:
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>
> http://www.qsl.net/i2phd/email.gif
>
> --
> /*73 Alberto I2PHD*
> Credo Ut Intelligam/
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>
> ----------
> Posted by: Alberto I2PHD <i2phd@...>
> ----------

> ----------
> Check out the automatic photo album with 1 photo(s)
> <https://groups.yahoo.com/neo/groups/pixel_loop/photos/photomatic/854063824;_ylc=X3oDMTE
4M3R1OW82BF9TAzk3MzU5NzE0BGNmOQNQSE9UT01BVElDBHNlYwNtZWdhcGhvbmU->
> from this topic.
> 20171026-225531-185.jpg
> <https://groups.yahoo.com/neo/groups/pixel_loop/photos/photomatic/854063824;_ylc=X3oDMTE
4M3R1OW82BF9TAzk3MzU5NzE0BGNmOQNQSE9UT01BVElDBHNlYwNtZWdhcGhvbmU->
>

--
Cecil - k5nwa http://thepartsplace.k5nwa.com/

382. RE: [pixel_loop] Transistors fitted to the RF-Pro-1B amplifier? [1 Attachment]

Yahoo group: pixel_loop
Date: 2017-10-27 18:56:32 UTC
From: Terry Palmersheim
Topic: 364 Message: 382

Gentleman,

A little detective work was required here but, going to this website should give you all of the information you require:

http://www.marsport.org.uk/smd/mainframe.htm

The ‘FF’ shows four different devices, one of which is a BFQ18A, the ‘W’ shows the SMD footprint with inputs and outputs. Hope this helps!

Terry, KT7DX

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Date: 2017-11-03 16:31:23 UTC
From: malet-bernard@...
Topic: 364 Message: 383
Attachments: 1 described; binary payloads are missing from this source WARC

Hip hip hooray!
My Pixel RF PRO 1B, works perfectly again.
Replacement of the four transistors of the Preamplifier, for safety
Or, there are four identical transistors BFQ18A two hidden under pseudo coolers
Many thanks again for the invaluable help of Simon G4ELI
Bernard

384. For sale: Pixel RF-PRO-1B

Yahoo group: pixel_loop
Date: 2017-12-11 13:35:22 UTC
From: bradld@...
Topic: 384 Message: 384

Two loops for sale:

each $250 + shipping or local pickup in NH. Loops are in excellent condition.

Contact me if interested - no sales outside USA.

385. Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-02 23:54:02 UTC
From: davidjmessing@...
Topic: 385 Message: 385

I am an AM DX listener and this loop worked great. I purchased it 2014 in Dayton Hamvention special @ $400 from Doug at Pixel. Recently, It started getting scratchy and signal levels jumping. Removed the cover on the amp and saw the F Connectors had twisted breaking the ground wire inside both the input and output. While the case was making the ground from the F connector, it wasn't good as the actual wire connected directly to the pc board. Pixel placed a glob of glue around the F connector to keep it from turning but over time glue was not sticking to the case, allowing free turning and breaking wires. Removed the old glue glob and used JB Weld to secure the F connectors. I tested following the repairs, some issues were improved, but had some static when there should not been any. Decided to check the loop.

The board in the bottom of the loop was potted with two different hard materials. I saw where the seal wasn't good enough from manufacturer and there was corrosion and rust around the F connector. I had only one choice but to remove the board from the potting. Was very careful involving most of the day. This board contains the female F connector, T1 transformer, and two parallel capacitors C1 (105) and C2(104). One is a 1 uFd, the other a .1 uFd. The T1 transformer has one side going to the loop, the opposite side connected to F connector and capacitors. T1 got some damage while removing the potting. I may be able to repair it, but it may be like brain surgery. The cover broke over T1 but saw some identifying numbers broke, I saw a WB or WD. Does anyone have knowledge on the T1 part number?

I think I found the T1 replacement by Coilcraft from Mouser. It is a 1 to 1 transformer with the loop side having a center tap, the secondary feeding the preamp center tap is not connected. I have one arriving next week, but am betting it is the correct part. I ordered new caps and with the transformer under $10.

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One comment by those who have had failures. Since I run about 1.3 KW on 75 meters, I wanted to make absolute certain a sniff of RF never made it down the line to the Pixel amp. The MFJ 1707 antenna switch was on the line to the Pixel the first day.

Dave K0RWM Nebraska City.

386. RE: [pixel_loop] Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 00:18:49 UTC
From: BDM
Topic: 385 Message: 386

Not sure if this helps. I saw a replacement amplifier available at DX Engineering

https://www.dxengineering.com/parts/dxe-rfpro1b-pa

-Brian

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, February 02, 2018 6:54 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Pixel repairs

I am an AM DX listener and this loop worked great. I purchased it 2014 in Dayton Hamvention special @ $400 from Doug at Pixel. Recently, It started getting scratchy and signal levels jumping. Removed the cover on the amp and saw the F Connectors had twisted breaking the ground wire inside both the input and output. While the case was making the ground from the F connector, it wasn't good as the actual wire connected directly to the pc board. Pixel placed a glob of glue around the F connector to keep it from turning but over time glue was not sticking to the case, allowing free turning and breaking wires. Removed the old glue glob and used JB Weld to secure the F connectors. I tested following the repairs, some issues were improved, but had some static when there should not been any. Decided to check the loop.

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Dave K0RWM Nebraska City.

387. Re: RE: [pixel_loop] Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 00:38:19 UTC
From: David Messing
Topic: 385 Message: 387

Thank you Brian. I tried DX Engineering If I have an idea what parts work, it should be repaired for about $10.
After paying that huge amount of money, they should make it possible to repair if they wish.
Dave
On Friday, February 2, 2018, 6:19:06 PM CST, 'BDM' radiodx3@gmail.com [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

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https://www.dxengineering.com/parts/dxe-rfpro1b-pa

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Dave K0RWM Nebraska City.

388. RE: RE: [pixel_loop] Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 01:01:24 UTC
From: BDM
Topic: 385 Message: 388

I figured you probably already knew this, but I just wanted to throw it out there to be sure. Maybe try contacting Jack K8ZOA at Clifton Labs. Possibly he can help? Wish I could help further.

-Brian

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, February 02, 2018 7:38 PM
To: 'BDM' radiodx3@... [pixel_loop] <pixel_loop@yahoogroups.com>
Subject: Re: RE: [pixel_loop] Pixel repairs

Thank you Brian. I tried DX Engineering If I have an idea what parts work, it should be repaired for about $10.

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Dave K0RWM Nebraska City.

389. Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 03:27:32 UTC
From: davidjmessing@...
Topic: 385 Message: 389

Brian

Thank you for the good ideas. I have contacted DX Engineering, they offer replacements. I was hoping they would give me part numbers and values.

I should clarify, my pre-amp is totally good, I think. Only issue were the loose F Connectors spinning on the box breaking each of their ground wires to the circuit board.

I found issues in the loop itself. There was corrosion in the bottom compartment where the potted circuit is located. Also, the insulation was bared in the top part of the loop and appeared to be touching. I account for some static when movement in the wind.

To fix the bottom part took about 6 hours of careful picking on the potted black rubber material and a silicone material. I damaged one capacitor C1. It was a 105 value. Even with it broken the All Digital meter measured it at .875 mFd. So that was indeed a 1 uFd. C2 always sustained a broken leg, but it measured .1 on the meter. That left me with a broken RF transformer. Using the numbers from the preamp below I saw the series belonged to Coil Craft.

So my point if comparing notes to those who had a loop that needed work and ran into the potting issue. As it turns out, it is really a simple circuit.

Dave

390. RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 03:49:33 UTC
From: BDM
Topic: 385 Message: 390

Understood Dave. I bought mine not long after the "B" version was introduced. I also ran into an issue a few years back with my loop, poor connection inside the wire to F connector at the base of the loop. I had an issue with high noise level. I repaired that, then made sure all connections were water tight, including the preamp connectors. So far so good. Only other issue I had was the coax. My loop is mounted about 10+' next to the garage (all wood garage). Then the cable is strain relived/mounted from the mounting pole, then to the garage and strain relived again, then elevated about 7-1/2' above ground up to the house below the gutters (about 12' up). A critter at some point decided to chew on the cable where it rounded the corner of the house then going up to the second-floor feed-through. Well that little chewed portion finally corroded, causing me to believe once again something in the loop failed. I had good power feed at the amplifier so I didn't really look over the coax like I should have at first. Anyhow that's my tail of woe ;-) Beyond that, it's been very reliable and is on 24/7 feeding a Perseus SDR

-Brian

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, February 02, 2018 10:28 PM
To: pixel_loop@yahoogroups.com
Subject: [pixel_loop] Re: Pixel repairs

Brian

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Dave

391. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 05:11:26 UTC
From: David Messing
Topic: 385 Message: 391

I have been in SDR for several years. Elktor, RF Space SDRIQ, Flex 1500, Flex 3000, Anan 100D, Icom IC 7300, latest SDR Play RSP2. I no longer have the Flex's and Elktor.
The local station on 1600 kHz is 1 mile away with 500 day and 32 watts at night. I built a 1600 kHz trap for daytime use.
I listen a lot also on the Yaseu FRG-7700 and Sears branded Yaesu FRG-7.
The Pixel loop has really been a God send. For omni directional the Quantum Phasor or the MFJ Noise Canceller nulls real well. The Anan 100D has true diversity which is fun.
But for 90% of the time, the Pixel loop is far my favorite for "Zoomer Radio 740 Tornado Canada, and others, with WTWW 5.085 from Lebanon, TN. They have been off the air the last several weeks. Their web site says antennas damaged from storm.
Waiting for parts I am using a loop I made in the 80's inside the house. Its not near the same as getting the Pixel outside the house.
During this wait I need to dust off the Ramsey Signal Magnet. It is a remote located shielded loop that was varicaps in the loop tuned from a control box at the operating position.
I will appreciate getting the Pixel with the knowledge gained here and from getting rid of the potting so that it can be serviced by me for years to come.
73
DaveK0RWMNebraska City

On Friday, February 2, 2018, 9:49:43 PM CST, 'BDM' radiodx3@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote:

Understood Dave. I bought mine not long after the "B" version was introduced. I also ran into an issue a few years back with my loop, poor connection inside the wire to F connector at the base of the loop. I had an issue with high noise level. I repaired that, then made sure all connections were water tight, including the preamp connectors. So far so good. Only other issue I had was the coax. My loop is mounted about 10+' next to the garage (all wood garage). Then the cable is strain relived/mounted from the mounting pole, then to the garage and strain relived again, then elevated about 7-1/2' above ground up to the house below the gutters (about 12' up). A critter at some point decided to chew on the cable where it rounded the corner of the house then going up to the second-floor feed-through. Well that little chewed portion finally corroded, causing me to believe once again something in the loop failed. I had good power feed at the amplifier so I didn't really look over the coax like I should have at first. Anyhow that's my tail of woe ;-) Beyond that, it's been very reliable and is on 24/7 feeding a Perseus SDR

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Dave

392. RE: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-03 05:22:54 UTC
From: BDM
Topic: 385 Message: 392

Dave, you have very busy shack. I sold most of my equipment (amps/tuners/radios, etc), keeping the Perseus, and several antennas including the loop (several dipoles/longwires/active whip). I'm just north of Detroit and also listen to Zoomer and many others.

-Brian

W8GTX

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Saturday, February 03, 2018 12:11 AM
To: 'BDM' radiodx3@... [pixel_loop] <pixel_loop@yahoogroups.com>
Subject: Re: RE: [pixel_loop] Re: Pixel repairs

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Nebraska City

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Dave

393. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-08 22:50:56 UTC
From: david stremme
Topic: 385 Message: 393

pixel is GONEsold to some outfit in FLA 3-4 yrs agostill selling (IN THINK) cellular boosters and some Elect Vehicle (TESLA) charging stuff maybe (INLOGIS)
use to work there (QC - OFFICE MGR - General Gopher
for what it's worth (NOT MUCH) I'd say if you can fix it go for it - doubt there's any AM-2 or Pixel Loop repair service around and definitely out of warranty too

GOOD LUCK

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Sent: Saturday, February 03, 2018 12:11 AM
To: 'BDM' radiodx3@... [pixel_loop] <pixel_loop@yahoogroups.com>
Subject: Re: RE: [pixel_loop] Re: Pixel repairs   I have been in SDR for several years. Elktor, RF Space SDRIQ, Flex 1500, Flex 3000, Anan 100D, Icom IC 7300, latest SDR Play RSP2. I no longer have the Flex's and Elktor.   The local station on 1600 kHz is 1 mile away with 500 day and 32 watts at night. I built a 1600 kHz trap for daytime use.   I listen a lot also on the Yaseu FRG-7700 and Sears branded Yaesu FRG-7.   The Pixel loop has really been a God send. For omni directional the Quantum Phasor or the MFJ Noise Canceller nulls real well. The Anan 100D has true diversity which is fun.   But for 90% of the time, the Pixel loop is far my favorite for "Zoomer Radio 740 Tornado Canada, and others, with WTWW 5.085 from Lebanon, TN. They have been off the air the last several weeks. Their web site says antennas damaged from storm. Waiting for parts I am using a loop I made in the 80's inside the house. Its not near the same as getting the Pixel outside the house. During this wait I need to dust off the Ramsey Signal Magnet. It is a remote located shielded loop that was varicaps in the loop tuned from a control box at the operating position. I will appreciate getting the Pixel with the knowledge gained here and from getting rid of the potting so that it can be serviced by me for years to come. 73 DaveK0RWMNebraska City   On Friday, February 2, 2018, 9:49:43 PM CST, 'BDM' radiodx3@... [pixel_loop] <pixel_loop@yahoogroups.com> wrote: Understood Dave. I bought mine not long after the "B" version was introduced. I also ran into an issue a few years back with my loop, poor connection inside the wire to F connector at the base of the loop. I had an issue with high noise level. I repaired that, then made sure all connections were water tight, including the preamp connectors. So far so good. Only other issue I had was the coax. My loop is mounted about 10+' next to the garage (all wood garage). Then the cable is strain relived/mounted from the mounting pole, then to the garage and strain relived again, then elevated about 7-1/2' above ground up to the house below the gutters (about 12' up). A critter at some point decided to chew on the cable where it rounded the corner of the house then going up to the second-floor feed-through. Well that little chewed portion finally corroded, causing me to believe once again something in the loop failed. I had good power feed at the amplifier so I didn't really look over the coax like I should have at first.

Anyhow that's my tail of woe ;-) Beyond that, it's been very reliable and is on 24/7 feeding a Perseus SDR -Brian From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, February 02, 2018 10:28 PM
To: pixel_loop@...m
Subject: [pixel_loop] Re: Pixel repairs Brian Thank you for the good ideas. I have contacted DX Engineering, they offer replacements. I was hoping they would give me part numbers and values. I should clarify, my pre-amp is totally good, I think. Only issue were the loose F Connectors spinning on the box breaking each of their ground wires to the circuit board. I found issues in the loop itself. There was corrosion in the bottom compartment where the potted circuit is located. Also, the insulation was bared in the top part of the loop and appeared to be touching. I account for some static when movement in the wind. To fix the bottom part took about 6 hours of careful picking on the potted black rubber material and a silicone material. I damaged one capacitor C1. It was a 105 value. Even with it broken the All Digital meter measured it at .875 mFd. So that was indeed a 1 uFd. C2 always sustained a broken leg, but it measured .1 on the meter. That left me with a broken RF transformer. Using the numbers from the preamp below I saw the series belonged to Coil Craft. So my point if comparing notes to those who had a loop that needed work and ran into the potting issue. As it turns out, it is really a simple circuit. Dave

394. RE: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-08 22:57:29 UTC
From: BDM
Topic: 385 Message: 394

I believe DX Engineering owns the right to Pixel antennas. They currently sell the complete antenna or components for them

-Brian

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Thursday, February 08, 2018 5:51 PM
To: pixel_loop@yahoogroups.com
Subject: Re: RE: [pixel_loop] Re: Pixel repairs

pixel is GONE

sold to some outfit in FLA 3-4 yrs ago

still selling (IN THINK) cellular boosters and some Elect Vehicle (TESLA) charging stuff maybe (INLOGIS)

use to work there (QC - OFFICE MGR - General Gopher

for what it's worth (NOT MUCH) I'd say if you can fix it go for it - doubt there's any AM-2 or Pixel Loop repair service around and definitely out of warranty too

GOOD LUCK

On Friday, February 2, 2018 10:23 PM, "'BDM' radiodx3@... <mailto:radiodx3@gmail.com> [pixel_loop]" <pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com> > wrote:

Dave, you have very busy shack. I sold most of my equipment (amps/tuners/radios, etc), keeping the Perseus, and several antennas including the loop (several dipoles/longwires/active whip). I'm just north of Detroit and also listen to Zoomer and many others.

-Brian

W8GTX

From: pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com> [mailto:pixel_loop@yahoogroups.com]
Sent: Saturday, February 03, 2018 12:11 AM
To: 'BDM' radiodx3@... <mailto:radiodx3@...> [pixel_loop] <pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com> >
Subject: Re: RE: [pixel_loop] Re: Pixel repairs

I have been in SDR for several years. Elktor, RF Space SDRIQ, Flex 1500, Flex 3000, Anan 100D, Icom IC 7300, latest SDR Play RSP2. I no longer have the Flex's and Elktor.

The local station on 1600 kHz is 1 mile away with 500 day and 32 watts at night. I built a 1600 kHz trap for daytime use.

I listen a lot also on the Yaseu FRG-7700 and Sears branded Yaesu FRG-7.

The Pixel loop has really been a God send. For omni directional the Quantum Phasor or the MFJ Noise Canceller nulls real well. The Anan 100D has true diversity which is fun.

But for 90% of the time, the Pixel loop is far my favorite for "Zoomer Radio 740 Tornado Canada, and others, with WTWW 5.085 from Lebanon, TN. They have been off the air the last several weeks. Their web site says antennas damaged from storm.

Waiting for parts I am using a loop I made in the 80's inside the house. Its not near the same as getting the Pixel outside the house.

During this wait I need to dust off the Ramsey Signal Magnet. It is a remote located shielded loop that was varicaps in the loop tuned from a control box at the operating position.

I will appreciate getting the Pixel with the knowledge gained here and from getting rid of the potting so that it can be serviced by me for years to come.

73

Dave

K0RWM

Nebraska City

On Friday, February 2, 2018, 9:49:43 PM CST, 'BDM' radiodx3@... <mailto:radiodx3@...> [pixel_loop] <pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com> > wrote:

Understood Dave. I bought mine not long after the "B" version was introduced. I also ran into an issue a few years back with my loop, poor connection inside the wire to F connector at the base of the loop. I had an issue with high noise level. I repaired that, then made sure all connections were water tight, including the preamp connectors. So far so good. Only other issue I had was the coax. My loop is mounted about 10+' next to the garage (all wood garage). Then the cable is strain relived/mounted from the mounting pole, then to the garage and strain relived again, then elevated about 7-1/2' above ground up to the house below the gutters (about 12' up). A critter at some point decided to chew on the cable where it rounded the corner of the house then going up to the second-floor feed-through. Well that little chewed portion finally corroded, causing me to believe once again something in the loop failed. I had good power feed at the amplifier so I didn't really look over the coax like I should have at first. Anyhow that's my tail of woe ;-) Beyond that, it's been very reliable and is on 24/7 feeding a Perseus SDR

-Brian

From: pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com> [mailto:pixel_loop@yahoogroups.com]
Sent: Friday, February 02, 2018 10:28 PM
To: pixel_loop@yahoogroups.com <mailto:pixel_loop@yahoogroups.com>
Subject: [pixel_loop] Re: Pixel repairs

Brian

Thank you for the good ideas. I have contacted DX Engineering, they offer replacements. I was hoping they would give me part numbers and values.

I should clarify, my pre-amp is totally good, I think. Only issue were the loose F Connectors spinning on the box breaking each of their ground wires to the circuit board.

I found issues in the loop itself. There was corrosion in the bottom compartment where the potted circuit is located. Also, the insulation was bared in the top part of the loop and appeared to be touching. I account for some static when movement in the wind.

To fix the bottom part took about 6 hours of careful picking on the potted black rubber material and a silicone material. I damaged one capacitor C1. It was a 105 value. Even with it broken the All Digital meter measured it at .875 mFd. So that was indeed a 1 uFd. C2 always sustained a broken leg, but it measured .1 on the meter. That left me with a broken RF transformer. Using the numbers from the preamp below I saw the series belonged to Coil Craft.

So my point if comparing notes to those who had a loop that needed work and ran into the potting issue. As it turns out, it is really a simple circuit.

Dave

395. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-08 23:31:21 UTC
From: david stremme
Topic: 385 Message: 395

have seen SIMILAR nits in HRO - significant upgrade from the OLD Pixel Loops I'm familiar wirh
retied -totally out of the "LOOP" sorry for the PUN

On Thursday, February 8, 2018 3:57 PM, "'BDM' radiodx3@... [pixel_loop]" <pixel_loop@yahoogroups.com> wrote:

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396. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-10 20:50:51 UTC
From: davidjmessing@...
Topic: 385 Message: 396

I had total success in repairing the loop. Yes, I know DX Engineering owns the rights and this is a wonderful piece of equipment. They do offer replacement amps and replacement loops to existing owners.

I purchased my loop new from Pixel at Dayton about 3 years ago. I can only comment on the build from that point in time. DX Engineering is very responsive and willing to help. I had asked for component level, or the small board replacement located in the bottom part of the loop. That is not available.

Being experienced in electronic repairs, I decided to fix the parts. The circuit in the bottom of the loop is potted with a very hard rubber and silicon like material. After about 6 hours of picking little parts of potting material out, I found a very simple circuit of two capacitors, a rf transformer, and F connector. Replacement transformer and two capacitors, which sustained some physical damage, were purchased from Mouser were for just over $5 plus $7.50 shipping.

The problem I saw with the loop was some corrosion around the F connector on the bottom. The nut on the F Connector was the next size up making it cockeyed on the threads and not tighten. This may explain why I had static and jumping signal levels. I had spare female/female F connectors that had the perfect size nut. With that in place on the Pixel Loop the connector was secure and tight, with no movement.

Looking inside the top junction box on the loop where the conductors attached to the aluminum loop too much bared insulation allowed a touching the opposite aluminium loop, a cause for static and signal level. Moved the wires for greater clearance.

On the amplifier, the F connectors had been glued with a yellow looking glue glob not sticking to the case. That big glue glob and F connectors were loose and spinning. It resulted in breaking the ground wires to PC board in the IN and OUT connectors. Bad glue was replaced with JB Weld. Looks to me that will not become unglued and those F connectors are tight

As I am writing this I'm listening to a weak 1490 kHz Omaha station 50 miles away sounding like it is a local.

The local station 1600 kHz here in town is 1 mile from the shack.

I notice if the loop is aimed directly to the Omaha station a level of noise with weak audio from the local station.
Turning the loop to null the local proves the the amp is being over driven. I am going to install a 1600 kHz trap between the Pixel loop and the high gain amp. This condition goes away at sunset when the local station lowers power from 500 to 32 watts. It shows its best to keep local broadcast stations trapped between the loop and the amp.

Earlier posts on this site described the replacement parts needed for the amp, should they fail. At this point in time, my loop is fully serviceable for all repairs here in house. I thought their may be some who need some help in repairing the loop itself.

FYI, MFJ has a new version TR switch called MFJ-1708SDR. From day one I installed the MFJ 1707 antenna switch to protect the Pixel amp. I have always been paranoid about a cross connection getting RF from the ham rig into the amp.

I can not say enough good things about this loop. While I had it down for maintenance, I put the remote tune-able Ramsey Signal Magnet on line. It too is good, but good only for 540 to 1600 kHz.

If anyone is considering the Pixel loop, I hope they will feel the same both my friend Steve here in town and I have about this antenna. Having it down for the last two weeks, I felt like a lost an arm. I would buy it again.

73

Dave
K0RWM
Nebraska City

397. RE: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-10 20:58:49 UTC
From: BDM
Topic: 385 Message: 397

Excellent write up Dave. Thanks for sharing the outcome, good info for future reference. I'm planning on taking my down this spring for disassembly and maintenance, just to be certain nothing is about to go wrong. Also, I'm going to install new coax/feed line.

-Brian

From: pixel_loop@yahoogroups.com [mailto:pixel_loop@yahoogroups.com]
Sent: Saturday, February 10, 2018 3:51 PM
To: pixel_loop@yahoogroups.com
Subject: Re: RE: [pixel_loop] Re: Pixel repairs

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73

Dave

K0RWM

Nebraska City

398. RE: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-10 21:12:28 UTC
From: davidjmessing@...
Topic: 385 Message: 398

Thank you Brian. I have close up photos and would share those with you. I am good on QRZ.com

Dave

399. RE: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-10 21:17:37 UTC
From: BDM
Topic: 385 Message: 399

Dave, just sent you an email

-Brian

From: pixel_loop@...m [mailto:pixel_loop@yahoogroups.com]
Sent: Saturday, February 10, 2018 4:12 PM
To: pixel_loop@yahoogroups.com
Subject: RE: RE: [pixel_loop] Re: Pixel repairs

Thank you Brian. I have close up photos and would share those with you. I am good on QRZ.com

Dave

400. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-11 14:14:08 UTC
From: malet-bernard@...
Topic: 385 Message: 400

Hi Dave,
Congratulations on your repair work and your explanations
I placed some time before information on the 4 transistors
Can you send me your photos of the details of your repairs
Thanks in advance
Best regards
Bernard MALET

401. Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-11 16:08:27 UTC
From: chipensaw@...
Topic: 385 Message: 401

Excellent information Dave. Thank you for adding to the group!

Jay

402. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-12 15:53:40 UTC
From: davidjmessing@...
Topic: 385 Message: 402

I am on QRZ. Send me an email, please

Dave
K0RWM

403. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-15 13:08:41 UTC
From: malet-bernard@...
Topic: 385 Message: 403

Hi Dave,
Very surprised not to have answers to my different emails?
Best regards
Bernard

404. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-15 18:59:48 UTC
From: Frank Depetrillo
Topic: 385 Message: 404

I hooked up my Pixel yesterday, 15 feet off the ground, after a period of inactivity. Last nite I received signals on the following frequencies: 171 kHz, 180, 183, 198, 206, 224, 234, and 252. The BBC at 198 was strong, and I copied DIW beacon in Dixon N. Carolina, in CW underneath BBC. 252 was very strong, as well as 183 in French. Using a Racal RA 6790 here in Rhode Island.
Frank DePetrillo, W1EYH

405. Re: RE: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-15 23:48:48 UTC
From: david stremme
Topic: 385 Message: 405

Frank:I am no longer involved with the PIXEL LOOP
no information to provide - no data sets to share - been 3 yrs ow since I worked there

On Thursday, February 15, 2018 1:29 PM, "Frank Depetrillo marconi@... [pixel_loop]" <pixel_loop@yahoogroups.com> wrote:

I hooked up my Pixel yesterday, 15 feet off the ground, after a period of inactivity. Last nite I received signals on the following frequencies: 171 kHz, 180, 183, 198, 206, 224, 234, and 252. The BBC at 198 was strong, and I copied DIW beacon in Dixon N. Carolina, in CW underneath BBC. 252 was very strong, as well as 183 in French. Using a Racal RA 6790 here in Rhode Island.Frank DePetrillo, W1EYH

406. Re: [pixel_loop] Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-16 00:52:36 UTC
From: Frank Depetrillo
Topic: 385 Message: 406

Sorry. Your still listed in the group.
Frank

-----Original Message-----
From: david stremme dstremme@... [pixel_loop] <pixel_loop@yahoogroups.com>
To: pixel_loop <pixel_loop@yahoogroups.com>
Sent: Thu, Feb 15, 2018 6:58 pm
Subject: Re: RE: [pixel_loop] Re: Pixel repairs

Frank:
I am no longer involved with the PIXEL LOOP

no information to provide - no data sets to share - been 3 yrs ow since I worked there

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Frank DePetrillo, W1EYH

407. Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-21 01:52:38 UTC
From: davidjmessing@...
Topic: 385 Message: 407

Hi Bernard,

I have not seem any emails to my gmail.com address as listed on QRZ. That is a way hams keep their email addresses private.

I just checked my Yahoo email and see no emails from you.

You requested some photos. I would be willing to share those with you privately.

Dave
K0RWM

408. Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-22 06:32:26 UTC
From: malet-bernard@...
Topic: 385 Message: 408

Dave
here is my address: malet-bernard@orange.fr

409. Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-23 00:49:33 UTC
From: davidjmessing@...
Topic: 385 Message: 409

Did Yahoo drop everything following the @ ??

I tried Gmail and Yahoo, and both bounced.

Maybe a reply with just just what comes after the @

Dave

410. Re: Pixel repairs

Yahoo group: pixel_loop
Date: 2018-02-23 07:12:31 UTC
From: malet-bernard@...
Topic: 385 Message: 410

Dave
Strange but final is orange.fr

411. Aluminum Tube Termination

Yahoo group: pixel_loop
Date: 2018-08-17 15:54:07 UTC
From: rs001a@...
Topic: 411 Message: 411

Does anyone know how the Pixel aluminum tube is terminated at the bottom of the loop (is it soldered, bolted connection...)? I am making an aluminum loop and determining how to best connect to the aluminum? Any advice is welcome.

Thanks, Ron
K2RAS